

In this chute you can feed packages of one size

In this chute you can feed a different size

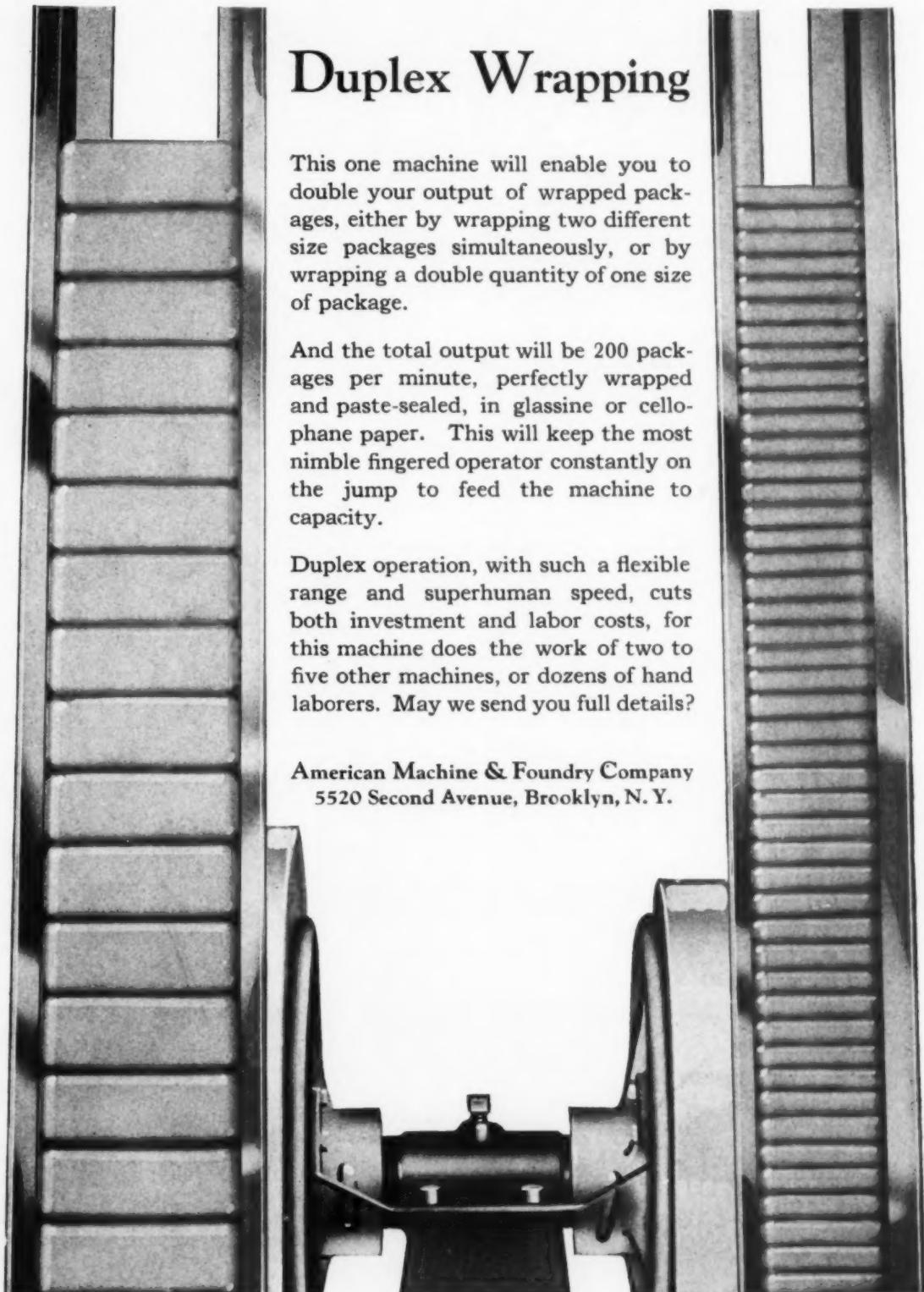
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This one machine will enable you to double your output of wrapped packages, either by wrapping two different size packages simultaneously, or by wrapping a double quantity of one size of package.

And the total output will be 200 packages per minute, perfectly wrapped and paste-sealed, in glassine or cellophane paper. This will keep the most nimble fingered operator constantly on the jump to feed the machine to capacity.

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## EDITORIAL



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**A Specialized Technical and Commercial Magazine for  
Confectionery Superintendents, Purchasing  
Agents and Executives**

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EARL R. ALLURED,  
Editor - Publisher.

### Purchasing and Production Executives

You are especially invited to attend the N. C. A. Exposition in Chicago the week of May 24th for a number of reasons. First, it will be the "informashow" of the confectionery industry, as the association of purchasing agents might say. The purpose of the Exposition is mainly to make it "informative," to provide an opportunity for the executives of both the candy manufacturers and the supply and equipment firms to establish and renew personal contacts which are conducive to mutually profitable relationships with the supply field. This is an ideal occasion to meet the key men of the leading supply firms and discuss your problems and conditions with them without having an order book pushed under your nose in a spirit of conference rather than of a solicitation for business. (See directory of exhibitors, pages 17-21.)

### More Quality—Same Old Price—and More Profit!

Yes, sir, that's what recently happened with a very well-known candy bar which has enjoyed a tremendous sales volume and has now got its second wind and going bigger than ever. It was this way:

When this manufacturer sensed the first sure signs that one item in his line was a conspicuous success he made plans for big volume and laid out two courses of action. First, he employed a very competent engineer to study the manufacturing of the product and eliminate every

possible waste in the process and modernize the production of the piece in every way. It was soon found that the savings thus affected amounted to as much as the former margin of profit, which meant that profits were then doubled. Then what?

A price cut would be the natural order of the day, but not in this instance. Quality was at once increased; a better center, a richer caramel, better grade of chocolate coating and more of it; and the answer is that the piece is a "fixture" on the market today because the quality is there at a price which competition cannot touch unless equipped in the same specialized way.

Now, isn't that a safe and sane way of putting it across rather than by high pressure sales campaigns with suicidal slashes in prices in one form or another? There's an extra dividend or two lurking unseen in many candy plants, no doubt, which can be brought forth into real money—the kind that talks—with the help of a little research work and competent engineering counsel.



### The Food Manufacturer's Responsibility

IN SPITE of the efficient enforcement of the federal food and drugs act and the efforts of states and cities to supplement this splendid legislation, food handlers still have too little appreciation of their responsibility to the consumer. The larger manufacturers know that success depends upon the character of their service and every step in production, from the purchase of raw materials to the distribution of finished products, is safeguarded by rigid selection inspection and sanitary control.

But there are thousands of food handlers whose only conception of the importance of their service to mankind is measured by daily profits. They comprise dairymen who protest against laws intended to keep milk from diseased cows from our children, restaurant operators who make no effort to select healthy cooks and waiters, grocers and butchers who expose their merchandise to contamination by air-borne bacteria, and still another group which in self-satisfied contentment asserts its right to make and sell food on the broad ground of constitutional privilege.

Of course, there are no such rights. The man who would start a bakery or market without first knowing every sanitary regulation affecting his business should never be al-

lowed to open his doors. The consuming public expects the food handler to know that his product is wholesome and it has provided chemists and inspectors to assist him in attaining this end. The progressive manufacturer or vendor welcomes the assistance of these aids and appreciates as his most valuable asset the favorable rating given his business methods. But there are men who still resent inspection and who deny the right of the consumer to inquire into their business methods. They confuse their shop with their home and would make it a castle in which to defend obsolete ideas of minding their own business.

Such a position cannot be defended, and while they are fighting to hold it they throw a cloud of distrust over their entire industry. The consumer who knows that his baker resents inspection naturally concludes that there must be some insanitary condition responsible for his attitude. Accordingly, he condemns all bakery products, regardless of the fact that the modern bakery is as sanitary as science can make it.

In a midwestern city an ordinance was recently introduced in the city council to provide for more adequate protection of the public against insanitary conditions in food shops. A committee of bakers, believing that the inspection provided by the state departments was sufficiently



#### Pure Candy—Certified!

**T**HE purpose of this Purity Certification Label is to identify the food manufacturers who safeguard the purity of their products by maintaining reasonable standards of cleanliness, sanitation, hygiene and material control.

To mean anything the Purity Label must be backed up by adequate inspections conducted by competent, accredited sanitary engineers, free from political connections or influences, who will work with food manufacturers in a friendly spirit of constructive cooperation, safeguarding the interests of industry on the one hand and the consumer on the other.

The label being owned by an outside impartial organization, the Industrial Health Conservancy Laboratories, an independent organization of sanitary engineers and medical men of high repute, the Purity Label will no doubt have a greater significance to the public than if initiated and financed by manufacturers in any one industry.

By this plan the legitimate candy manufacturers may "tie in" with a constructive influence which all quality food manufacturers should exert among the fraternity of food producers, and that is "to KNOW that their employees are healthy, their materials pure, their methods modern and their products wholesome," which is the least of their responsibility to the consumer.

\*The design of the emblem above represents a symbolism as old as time. It tokens the perpetuation of life, pure and undefiled, as expressed in the evergreen tree. Thus it becomes most appropriate to suggest safeguards to health, purity and excellence in the manufacture of all food products. A more complete presentation of this subject will appear in subsequent issues.

rigid to furnish full protection, appeared before the council to oppose the passage of the ordinance. After the smoke of battle had cleared away it was apparent that the only sufferers were the bakers themselves, who were scathingly denounced next morning in the papers for their insanitary premises. Of course, no baker with any conception of his duty to the public will deny the right of inspection which will make such conditions impossible. Nor will he fail to recognize the utter foolishness of protesting against forms of control which assure his customers that the purity of his goods and the sanitation of his shop is guaranteed them thru the health department.

Indeed his concern for the most rigid enforcement of every good and sanitary law should be greater even than that of the consumer. For no matter how fully he complies with the regulations for the protection of the public health, every violation of these codes by competitors or other food handlers brings public censure and distrust to his own door. And that is the reason why the progressive food manufacturer and dealer is the strongest supporter of his health department and why he believes that it is his duty to know that his employees are healthy, his materials pure, his methods modern and his products wholesome.—*Nation's Health*.

# A Lesson from Peppermint

*An Editorial by A. Adams Lund*

**W**HEN an ordinarily subdued market runs wild at the bases as did the peppermint oil market during the year just past, it attracts the attention of numerous outsiders who find in its delirious course sufficient material to provide the lay public with a kick. The resulting misinformation appearing in the non-technical press is altogether too often regarded as *fact*, when actually, the persons or organs which prepared it may never have come in contact with the material or its market previously, hence could not be expected to judge the truth or fiction of the stories which are presented to them.

At the instance of one of the commercial dailies, a survey of the peppermint oil situation was recently prepared by one of the newspaper syndicates, and as is the custom when such a study has been made, subsequently farmed out to several leading dailies and technical periodicals in non-conflicting fields, to be re-edited and appear under many different disguises. While the syndicate is sufficiently disinterested to be above suspicion of bias, the report which it transmitted to its constituents contained numerous inaccuracies and misstatements, presumably attributable to the credulity of their reporter who pinned just the least too much faith upon the veracity of mankind.

An illustration of how these inaccuracies find their way into the public press was afforded several weeks ago, when a reporter for the *New York Times* telephoned to the superintendent of a local candy factory to obtain some information regarding peppermint oil (possibly to pad out his story based upon this very survey). The superintendent, a highly specialized expert on candy manufacturing but naturally quite ignorant on the subject of markets, since he did no buying of the oil himself, was so fussed and flattered that he poured forth a veritable flood of misinformation for the benefit of this distinguished paper. The buyer, who had actually made a study of the commodity, came in during the discourse and listened with amazement to the fanciful tale without being able to check or correct the excited superintendent. It is obvious that reports so obtained are absolutely worthless from a technical standpoint.

It is interesting to analyze the syndicated story which has been served and re-served to us during the past couple of months:

"Ninety per cent of the peppermint oil used in the United States has heretofore been produced in an area of some sixty square miles in Northern Indiana and Southern Michigan, known as the 'peppermint belt'."

The present peppermint-producing area, which extends southwest into Illinois, covers *more than twice* this number of square miles. In Southern Michigan and Northern Indiana there are many broad, level stretches, sometimes several thousand acres in extent, of the deep, fertile muck soil in which peppermint is grown. In this section may be seen rows upon rows of the plants, often a mile or more in length, under a single ownership. For a number of years the actual acreage under cultivation ranged between 20,000 and 25,000 acres. This was *increased* during the past two or three years to over 30,000 acres.

The report continues:

"The plant is grown on muck soil that is peculiar to the farming lands of that district, though only found in partial acreages on those farms."

These "mucklands" were formerly marshes and swamps, reclaimed by drainage, plowing and cultivating—nothing peculiar about them. They are the same rich character of black clay loam that is used for celery and cranberry culture. Peppermint has been cultivated to a lesser extent in the upland plantations chiefly for the reason that it rapidly depletes the soil of its valuable nitrogenous constituents. After the second year's harvest on upland soil, it is necessary that the fields be plowed and a five-year rotation of clover, corn, etc., be practiced before they are again planted to peppermint. The richness of the mucklands makes it possible to cultivate peppermint continuously for six or seven years, merely plowing up the land after each crop and turning the runners under to form the succeeding year's growth. The extreme fertility of this land leads to its inevitable abuse.

Then, to quote further from the survey:

"This land in the past has yielded as high as fifty pounds and over to the acre, but its yield has gradually shrunken until the average of production is now not much above eighteen pounds to the acre."

That the yield suffered a radical decline during the past year, no one can deny; but the figures given are distinctly misleading. The *average* yield in the Michigan and Indiana mint districts has never exceeded 25 to 30 pounds to

the acre. In years past it has run as low as 8 to 10 pounds to the acre. Of course, individual fields of even whole farms frequently run much higher than the average, as high as 80 or possibly 100 pounds having been produced on small tracts under exceptionally favorable conditions. But results better than 30 pounds are not at all general, as the syndicate report would seem to indicate.

"This (shrinkage in yield) has come about partially from the fact that the farmers have not rotated their crops and partially from the gradual drying up of the muck deposits."

The muck deposits do not dry up in the sense indicated. Rather, the soil becomes exhausted of its mineral elements through overcropping, without sufficient rotation of crops or artificial fertilization.

Further on the story reads:

"This year's crop of American peppermint was 'blown out,' as the mint farmers in the peppermint belt say. Due to the long dry season last summer, the soil of the muck field turned to dust. On top of this deterrent factor came a good-sized hurricane which lasted a couple of days, blowing the dust-like soil of the mint fields into clouds landing the root-covering far from the plants into piles along the roads and scattering the dirt over miles of adjacent territory not planted to mint. The draught and the winds ruined half of the crop of 1925 peppermint, thus 50 per cent of the acreage gave no yield of oil content, if it survived at all."

Fritzsche Brothers, distillers, differ on the exact agency causing the destruction, but substantiate the extent of the damage wrought:

"The roots were set out early in the spring in the growing districts in the states of Indiana, Michigan and to some extent in Oregon. The growth was favorable until late in May of 1925, when unusually severe frosts in the growing districts caused wholesale destruction of the plant. The growers were then confronted with the necessity of resetting the field, but it was too late to reset a normal acreage. As a result the crop was not only many weeks late in com-

ing on the market, but the quantity of oil distilled was far short of a normal yield."

In which Ungerer & Company concur: "It seems to be pretty well established that last year's crop was below 300,000 (lbs.) as compared with a normal yield of 5/600,000 . . . the acreage planted having been greater than that of 1924."

Along with this decrease in production comes the prospect of the usual increase in consumption, an increase which has developed with constant regularity every year for some years past. Europe draws largely upon us for her peppermint supply and the domestic demand going into candy, chewing gum and dental preparations absorbs a steadily increasing portion of the crop each year.

Thus the position of the peppermint oil market was intrinsically bullish; all that was needed was the spark to set it off.

### What Happened to the Eastern End of the Peppermint Belt?

IT is an overworked saying that history repeats itself. Speculation and monopoly are not new to the peppermint industry. It is the old story of the small crop, confined to a limited area and whose prices are susceptible to wide variation. The speculative "corner" reported to have existed in peppermint during the season just past had an interesting parallel as far back as 1844. At that time, the agent of a New York firm, in consideration of certain cash payments, acquired absolute control over the American peppermint market by binding the producers in Ohio and New York States

"under heavy penalties, to plow up their mint fields, and destroy the roots, and not plant any more mint, or sell or give away the roots, or produce or sell any mint oil for the period of five years." (*Proceedings Amer. Pharm. Assoc.* 7:449-459 (1858)).

Ohio has not been heard from since, her once thriving peppermint business having been completely wiped out by the monopoly that entrenched Michigan in her present position of premier peppermint grower, while the production of Wayne, N. Y., the pioneer peppermint county, has long since dwindled into insignificance. Thus the eastern end of the peppermint belt was obliterated by monopoly. What will be the result of the disastrous manipulations of 1925-1926 only time can tell.

The syndicate survey reminds us that:

"While peppermint oil is protected by the rulings of the Department of Agriculture, when the label 'peppermint' is used, there are many uses for the peppermint flavor that do not call for or need the label. It has, therefore, come about that the substitution of Japanese peppermint oil has been largely practiced."

This fact is all too true. One house informs us: "The use of substitutes has made considerable headway and for many purposes these will probably continue to be used even if American oil goes back to a normal level, as these substitutes can be produced much more cheaply."

The syndicate then brings forth the prize "plum":

"Japanese *Mentha arvensis*, when properly distilled, is indistinguishable from *Mentha piperita*, the American peppermint."

The Bureau of Plant Industry of the U. S. Department of Agriculture categorically denies this statement in these words: "The oils spoken

are not obtained from the true peppermint plant, but are distilled from entirely different species, namely, *Mentha arvensis piperascens* Malinvaud and *Mentha arvensis glabrata* Holmes, respectively. . . . The plant grown there (in Japan) is not, as already stated, the peppermint cultivated in our country, but *Mentha arvensis piperascens*, which is entirely distinct from the true peppermint, not only botanically, but also in taste and odor." (B. P. I. Bull. No. 90.)

Confectioners who have experimented with the Japanese oil during the recent crisis, have discovered to their sorrow that even after double rectification it still possesses an unpleasant odor and a bitter, disagreeable taste.

The report of the syndicate concedes that the Japanese product is proscribed by the Department of Agriculture and that all importations must be accounted for by the users in the United States and used only under labels specifying it as "field mint" or "corn mint," but passes over the fact saying:

"Those designations are hardly more than arbitrary ones, specified by the U. S. Pharmacopoeia to differentiate the Japanese peppermint oil from the American product and protect it from competition with the Japanese product of *Mentha arvensis*, upon which is also levied a 25 per cent tariff."

#### Fifty Pounds of Oil Buy a Carload of Sugar

The sequel to this combination of circumstances, short supply, rising demand and substitution, is now past history; yet the secondary causes which contributed to this unprecedented skyrocketing are still cloaked in considerable darkness. Time and again have we had short crops, without the price advancing much above \$6 a pound. Here we had prices of \$30 and even \$34 a pound.

There were probably three other factors responsible for as Japanese and Chinese 'peppermint' oils for this:

*First*, competition among the larger buyers for the limited supplies available. Up until the past year or two there were only four or five big dealers in the producing fields competing for the annual harvest. Last year a number of the big perfume, tooth-paste and specialty houses sent their own representatives direct to the fields to obtain their requirements. Their spirited bidding for stocks combined with the unexpected widening of the producers' market stimulated prices, while at the same time causing the farmer to hold back his peppermint.

*Second*, the financing of farmers' holdings by the Middle West banks and the inauguration of cooperative marketing. The natural oil is both grown and distilled by farmers who until recently have been unable to withhold their oil from market for more than a short period. Lately, however, the banks have been loaning

money on this oil, thus making it possible for the farmer to refrain from selling until the price comes somewhere near meeting his ideas. Eventually the bank notes must be paid, so if the buyers hold out long enough they can turn the tide in their favor.

*Third*, speculation and manipulation in the producing districts.

#### Inauguration of Cooperative Marketing

From the survey we read:

"Under an act of the Indiana legislature of 1925 a co-operative society was formed in South Bend. The farmers proposed to market their own holdings, something that they had never been able to do before. The St. Joseph Valley Mint Growers' Association was formed. Some three hundred of the eight hundred growers allied themselves into a non-compulsory non-pooling cooperative society. They secured the backing of the best banking institutions in South Bend and of a large banking concern in New York and paid cash to their members for their stored oil upon orders from consumers."

But at this point the survey strays from the realm of fact, saying:

"They were late in the field, but their activities in buying and in holding meetings among the farmers, coupled with the increased imports of Japanese peppermint oil, broke down the flood gates of speculation and the 'corner' broke."

It may be remarked that the Mint Growers' Association had little or nothing to do with the break in prices. They were chiefly interested in "pulling" down some of the big money themselves.

#### What Broke the Corner?

The break came with the realization that in order to bring the market down there must be

(Continued on page 61)



The American Peppermint Belt

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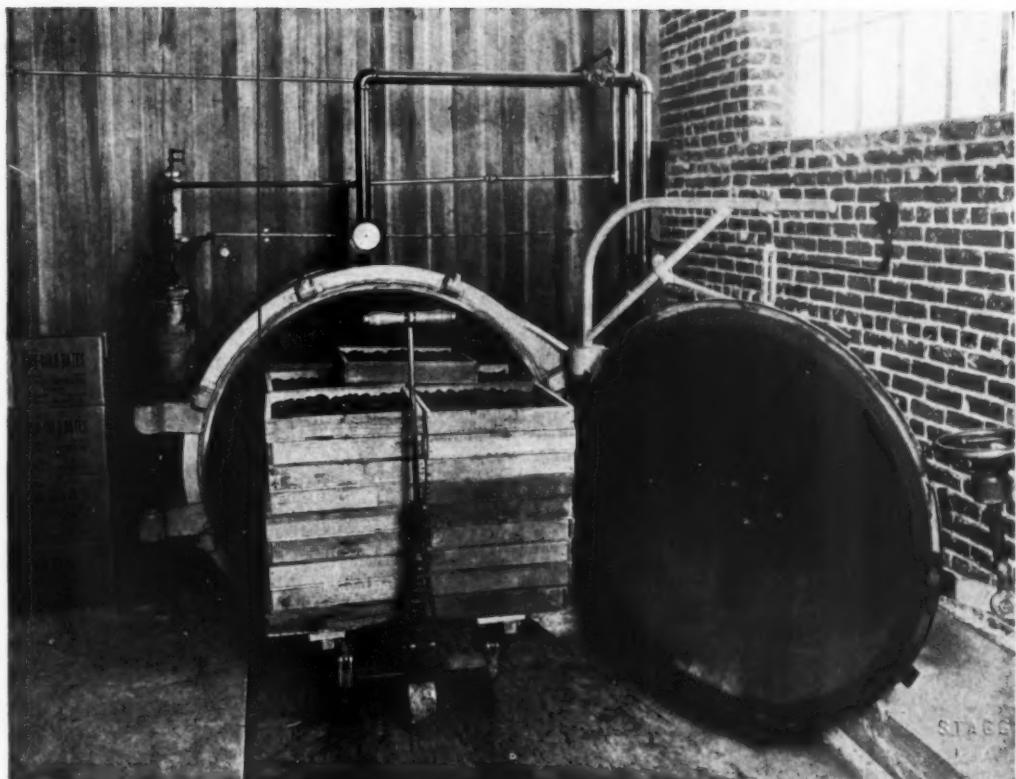
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### *Control of Insect Infestation—Part 3*

## Vacuum and Gas Fumigation for Confectioners' Raw Materials

by Norman W. Kempf

**T**HE first article of this series discussed in a general way, the methods available for the sterilization of nut-meats and other raw materials subject to damage by insect pests. It is the purpose of this article to describe a successful method involving two of the principles considered in that article—vacuum and gas fumigation.

It will be remembered that the mere application of a vacuum is insufficient to cause sterilization, because the larva and pupa stage of the moth are really very low forms of life, and able to withstand extremely low or high pressures. However, the eggs of all insects, like those of the birds, contain a certain amount of air, needed for the existence of the insect before hatching. Therefore, exposure to a vacuum

results in bursting of the egg, due to the pressure of this air, inside of the egg.

On the other hand, treatment with a poisonous gas at atmospheric pressures, involves danger to the operators, and is sometimes ineffective because of lack of penetration, it being necessary to spread the materials to be treated in thin layers to be assured of contact with the gas. By combining the two treatments, we insure penetration of the gas, because it must replace the air removed by the vacuum, and eliminate danger by placing suitable safeguards around the apparatus in which the fumigation is to be carried out.

Vacuum fumigation is not new, hydrocyanic acid having been used in this way for a decade or more for the fumigation of baled cotton. The application of this principle to the treatment

of foodstuffs, is largely the result of research work done by the California State Department of Agriculture. Dr. D. B. Mackie, Entomologist, Bureau of Plant Quarantine and Pest Control, made an intensive study of the pest control problem in that state, and has introduced many refinements in adapting vacuum fumigation to food products and nursery stock. The process has been in successful use in California for two years on a large part of the state's almond, walnut, date, and fig crop, and is also used in fumigating new potatoes, nursery stock, etc., when quarantine regulations forbid shipment over state or county lines.

#### The Equipment and Procedure Necessary

The apparatus required to carry out vacuum fumigation is not prohibitive in cost. The first essential is an airtight drum or chamber capable of withstanding atmospheric pressure, when evacuated to a 28 inch mercurial vacuum, and large enough to hold a unit charge required by your factory. Next, a continuous duty high vacuum pump, and some device for generating the gas for the fumigation. For economical operation, the drum should be provided with a large quick-opening door, to facilitate loading and unloading. The vacuum pump should have capacity sufficient to evacuate the chamber in not more than 10 or 12 minutes. The device used to generate the lethal gas should be capable of producing the gas in not only a safe manner, but in as short a time as possible. Then the entire apparatus should be protected by every safeguard known to science, to eliminate danger to the operators and to those in adjoining rooms.

The procedure is as follows: the material to be fumigated, left in the original containers, is placed in the chamber, and the door shut and hermetically sealed. In the case of material packed in airtight metal cans, a hole must be punched in the can to permit egress of the air, and ingress of the gas. Then the air is pumped from the chamber until a vacuum of 28 inches is attained. Then the lethal gas is drawn into the chamber until the internal pressure due to the gas is almost the same or equal to atmospheric pressure. Nearly every material contains a certain amount of air; during the evacuation this air is drawn out, and replaced by the lethal gas when it is applied under pressure. In this way absolute penetration of the fumigant is assured. After sufficient exposure to secure a kill of all insect life present (generally 60 to 90 minutes), the lethal gas is pumped out of the chamber through a vent to the open air. When a 28-inch vacuum is again attained all but a trace of the active gas is removed. Then air is admitted, after which the door can be opened and the material taken out of the chamber *sterile*—but otherwise in its original condition,

*with its flavor unimpaired.* There is no loss in weight due to shrinkage of the material.

#### Kind of Gases

There are two gases in use in this method of sterilization. If your apparatus is located in the open air under a shed, hydrocyanic acid may be used. However, there are certain dangers attending the handling of liquid hydrocyanic acid in cylinders, which make it advisable to consider the use of another gas. For indoor work, the use of chemically pure carbon bisulphide is preferable.

While technical carbon bisulphide is known for its very disagreeable odor, this condition is due to the impurities present. The chemically pure article has been freed from these, and possesses a mild, sweetish odor somewhat similar to that of chloroform. The liquid is easily changed to the vapor phase, as the boiling point is 46.2 degrees centigrade. The vapor is extremely toxic to insects in all forms, but not poisonous to human beings, although, of course, it will not support life, and cannot be breathed exclusively without suffocation. Because of its inflammability, it is necessary to use it mixed with an inert gas, like carbon dioxide, to render it non-inflammable. The presence of carbon dioxide does not interfere with the efficiency of the fumigation, but does provide a perfectly safe method of handling an otherwise dangerous gas. Thorough tests have been made on mixtures of these two gases to determine the explosive range.

The following table, giving various mixtures of the gases with remarks as to their inflammability, shows that it is perfectly feasible to handle the gases without danger, provided sufficient carbon dioxide is used. These tests were made under a vacuum of 27 inches, at a temperature ranging between 74 and 76 degrees Fahrenheit.

$\% \text{CS}_2$	$\% \text{CO}_2$	$\% \text{Air}$	Explosive Reaction to Spark
9.97	0	90.03	Strong explosion
9.97	3.63	86.4	Strong explosion
9.97	7.26	82.77	Moderate explosion
9.97	10.09	79.06	Moderate explosion
9.97	14.6	75.43	Weak explosion
9.97	18.0	71.93	Weak explosion
9.97	21.8	68.23	Weak explosion
9.97	25.5	64.53	Very weak explosion
9.97	29.1	60.93	Very weak explosion
9.97	32.7	57.33	Very weak explosion
9.97	36.4	54.37	No explosion
9.97	54.5	35.52	No explosion
*9.97	80.33	10.0	No explosion (flame plunged into mixture was extinguished)

\*The last mixture tested (80%  $\text{CO}_2$ ) is the one used in fumigation.

Suitable apparatus has been designed to give a mixture containing 80 per cent carbon dioxide

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**Sterilizing Shelled Nuts by "Vacuum Fumigation" Method Recently Developed**

and 10 per cent carbon disulphide. The other 10 per cent represents the air left in the chamber after a 27-inch vacuum has been drawn. Such apparatus can be provided with ample safeguards, so that it can be handled by non-technical help.

If carbon disulphide is used as the lethal gas, it becomes possible to sterilize your finished product after it is packed (but not wrapped) without harm, or odor being left in it. This method provides absolute protection against wormy candy, as once the finished package has been sterilized and wrapped, reinfection is impossible until the wrapper is removed by the customer and the box opened.

The cost of sterilization by this process is nominal. Exact figures are hard to give, as the

cost will vary with local labor conditions and prices of the gases. There is no loss due to shrinkage of the material treated, as any moisture evaporated during the vacuum treatment is absorbed again on the admission of air.

The development of vacuum fumigation places in the hands of the manufacturing confectioner a weapon against insect infection which he cannot afford to neglect. Within a few years it should be possible to eliminate this ancient bugbear from our industry—a notable step in the right direction.

This publication will be glad to assist manufacturers interested in investigating this process by recommending the names of firms building apparatus to carry it out.

# Monthly Review of Current Technical Literature

of direct or indirect relationship to the confectionery industry

**T**HE chemical press and other scientific literature of America, also of Germany, France, England, Italy and other foreign countries, contains from time to time some discussions which have an important bearing on the technical phases of the confectionery industry. The reliable scientific publications of the world are being searched each month for this material which will hereafter be digested and presented in the following form in this publication. If desired, we are in position to furnish full text and translations at clerical cost of such work.

—EDITOR.

**A New Process for Preserving Fruits.** By J. G. Magaw and A. S. Magaw. U. S. Patent 1,564,599. Fruits and berries are preserved without the addition of water by adding dextrose to them and subjecting the mixture to a freezing temperature.

**A Chocolate Flavored Milk Beverage.** By S. J. Davis. U. S. Patent 1,563,020. A mixture of milk, sugar, and chocolate is heated to about 70° for fifteen minutes, homogenized at about the same temperature under 2000 lbs. pressure per square inch and sterilized.

**Process for Bleaching Chocolate.** By J. B. Barratt. U. S. Patent 1,563,682. Ground, roasted cacao nib from which the cacao butter has been extracted is treated with a slightly alkali solution of hydrogen peroxide.

**Adulteration of Oil of Limes.** Anon. Parfumerie Moderne. V. 18, P. 254. Distilled oil of lime is adulterated with terpenes obtained as a by-product in the production of terpeneless oil of limes and sometimes also with the terpenes of oil of lemon. Five samples of oil of lime adulterated in this way had an optical rotation of .856 to .858. They gave only about half the normal yield of terpeneless oil.

**Adulteration of Marmalades.** A. Labo. Riv. Ital. Ess. Profum. V. 8, Jan. 15. A discussion of the commoner forms of adulteration and detection.

**Fruit Confection.** W. S. Pierce. United States Patent 1,556,572. The juice and pulp of oranges or other fruits are evaporated together, in a vacuum, to a syrupy consistency. Sugar is impregnated with the essential oil of the fruit. This oil-impregnated sugar is added to the evaporated material, and the evaporation is continued to obtain a dry product.

**Bleaching Nuts.** A. W. Christie. United States Patent 1,558,963. Walnuts or other nuts are immersed in a solution from which nascent chlorine is being liberated and then in a solution of sulphur dioxide.

**Apparatus for Dehydrating Fruits, Etc.** A. W. Parker. U. S. Patent 1,560,305.

**Essential Oil Fellowship.** From "Science," April 2, 1926. The Lehn & Fink Products Company of New York have established at Columbia University a research fellowship for the investigation of problems in the field of essential oils and related products. The work is to be carried out in the Organic Laboratory under the direction of Prof. Marston T. Bogert.

**Differentiating Between Honey and Artificial Honey.** By Wilhelm Muller. Mitt. Lebensm. Hyg. V. 16, p. 198-200. The method of Auerbach and Bodlander is described and the results of analysis of fifty samples of honey are given and tabulated.

**The Testing and Judging of Dried Eggs in Regard to Spoilage.** By A. Schmid. Mitt. Lebensm. Hyg. V. 16, p. 137-43. Egg powders having an acidity (determined according to the Kottsdorfer method) of over 40, are considered to be unfit for consumption. Danger of poison through bacterial action need not be feared as the moisture content is usually rather low, between 4 and 6 per cent and at most 8 per cent. Schmid recommends, besides the determination of total fat and albumin, a determination of soluble albumin. A high acidity is the first and most important indication of decomposition and should not be allowed in products to be used for food purposes.

**Cacao Beans and Cacao Products.** By Heinrich Finke. Z. Nahr. Genussm. V. 50, p. 205-20. Numerous analyses of cacao beans and various cacao products are presented and discussed. Adulteration of cacao butter with the fat of the shells or embryo are detected by a method described in this article.

**The Dispersion of Powdered Egg Yolk.** Rosalie M. Cobb and F. S. Hunt. The journal of the American Leather Chemists Assn. V. 21, p. 18-22. Powdered egg yolk may be worked up into an emulsion with water as good as that of liquid egg yolk, provided a little alkali is incorporated. The use of an alkali preservative for powdered egg yolk is suggested.



# Directory of Exhibitors to the Confectionery Manufacturing Trade

*See Diagram of Floor Plan of Exposition Pages 20 and 21*

**AMERICAN CAN COMPANY** (Booth Nos. 92, 93, 94, Ball Room, Center). Exhibiting decorated metal packages, including new line of oblong hinge cover gift boxes. In attendance: Mr. George A. Fisher, Assistant General Sales Manager, assisted by Mr. Edmund Hoffman, Sr., Mr. Edmund Hoffman, Jr., Mr. H. G. Edwards, Mr. C. C. Boone, and Mr. H. E. Dygert of the Chicago branch.

**ANNHEUSER-BUSCH, INC.**, St. Louis (No. 54 Exhibition Hall). Corn products.

**ALUMINUM COMPANY OF AMERICA**, New Kensington, Penna. (Booth Nos. 33, 34, 35, 36, Exhibition Hall). Exhibiting aluminum foils for wrapping confections of all kinds. Aluminum paint suitable for covering interiors of plants, steel work, tanks, etc. A recently perfected aluminum cap applied hermetically to glass bottles for keeping hard candies in vacuum. In attendance: D. H. Tilson, F. S. Lally, E. A. Williams, J. E. Sharp, E. O. Vogelsanger and E. J. Mejia.

**ASSOCIATED WOODENWARE MANUFACTURERS** (No. 131, Mezzanine, Center). Wood candy pails.

**ATLANTIC GELATINE COMPANY**, Woburn, Mass. (Booth No. 95, Ball Room). Pure Food Gelatine. In attendance: Mr. A. C. Bernard, Mr. W. T. Turner of the New York office, Mr. Wallace H. Jose of New England, Mr. Joseph H. Cohen, vice president and general manager, and Mr. David C. Babcock, general sales manager.

**BEECH-NUT FOIL COMPANY**, Brooklyn, N. Y. (Booth No. 158, Mezzanine, North).

**WM. M. BELL CO.**, Chicago. (Booth No. 151, Mezzanine, North.) Exhibiting "Bell's Black Walnut Flavor," especially for Chips, Puffs, Fudges, etc.

**BENDIX PAPER COMPANY**, New York City. (Booth 86 and 87, Ballroom, North.)

**BENTZ ENGINEERING CORP.**, NEWARK, N. J. (Booth Nos. 21, 22, Exhibition Hall, Center.) Exhibiting a Bentz standard Starch Dry Room set up with windows in it to admit light. This room will be conditioned by a small Bentz "Chillblast" mounted on top of several "Coldbed" sections. The York Refrigerating Co. will place one of their small units in a booth adjoining and will supply Carbon Anhydried to the "Chillblast," thus making a practical demonstration of the Bentz Air Conditioning equipment by maintaining a temperature of about 70 degrees in this dry room with about 50 per cent relative humidity. A small model of the new Bentz Crystallizing unit will also be shown. (The Bentz folk say they hope the weather will be as hot as convention week last year at Boston—the rest of us don't, unless they "condition" the whole hotel.) In attendance: A. G. Luders, Vice President; Will D Slagle, Western Representative; R. P. Rasmussen, Chicago Office. Mr. W. E. Lowell, Western Manager, will be attending the Biscuit and Cracker Manufacturers' Convention at Los Angeles the same week.

**GEORGE L. BETTS COMPANY**, Chicago. (Booth No. 55, Exhibition Hall, West.)

**BLANKE-BAER EXTRACT & PRESERVING CO.**, St. Louis, Mo. (Booth No. 122, Mezzanine, Center.) Exhibiting full line of Dipping Fruits and Extracts used by the confectionery trade. In attendance: Dr. S. H. Baer, Miller Winston, W. H. Sullivan, James Flanagan, J. S. May, C. H. Westaway.

**BLUMENTHAL BROS.**, Philadelphia. (Nos. 128 and 137, Mezzanine.)

**M. A. BROWN PAPER BOX CO.**, St. Louis, Mo. (Nos. 120 and 121, Mezzanine.) Exhibiting: Fancy Candy Boxes suitable for the manufacturing and retail confectionery trade. In attendance: Samuel Brown and Fred E. S'Renco.

**BRUNHOFF MANUFACTURING CO.**, Cincinnati, Ohio. (No. 39, Exhibition Hall, West.) Exhibiting new styles of display racks and other kinds of display fixtures. In attendance: Edward Brunhoff, Sr., President; H. E. Brunhoff and Mr. Wydman, Midwest Representative.

**BUCKBEE-BREHM COMPANY**, Minneapolis, Minn. (No. 134, Mezzanine.) Exhibiting framed mottoes for Christmas and Mother's Day in sizes adapted to candy box tops. Also motto calendars, hands, cards, etc., created especially for confectionery packages, the sentiments of the lighter items being "written around candy" with the idea of enhancing the popularity of candy as a gift suited to all occasions. In attendance: Edward W. Brehm, Managing Director; G. H. Knowles and H. F. Hine, Sales Representatives, and W. A. Frisbie, Head of the Creative Department.

**B. H. BUNN COMPANY**, Chicago. (No. 90, Ball Room, Center.) Exhibiting the Bunn Turntable Tying Machine. In attendance: Mr. B. H. Bunn, Mr. H. E. Bunn, Mr. R. N. Bunn and Mr. J. G. Peters.

**CANDY & CHOCOLATE EQUIPMENT CO.**, New York City. (No. 32, Exhibition Hall, Front, Left.) Exhibiting Gaebel Plastic Automatic, Batch Spinner and Sirocco roaster, cleaner and cooler. Also Max Armbruster's line of fancy boxes and embossed labels. In attendance: V. O. Hermann, Alex Hart, Jr.

**CARRIER ENGINEERING CORP.**, Newark, N. J. (No. 49, Exhibition Hall, Left.) Exhibiting a model of a newly developed dryer for drying starch, marshmallows, gum drops, chicle, etc. Also photographs of the new Carrier Centrifugal Refrigeration System. In attendance: Mr. E. Nesdahl of the Chicago office and Mr. W. A. Borneman of the Philadelphia office.

**CARTER, RICE & CO.**, Boston, Mass. (No. 157, Mezzanine.) Exhibiting confectioner's papers and paper specialties.

**H. D. CATTY & COMPANY**, New York and Chicago. (No. 125, Mezzanine.) Exhibiting DuPont Cellophane, Aluminum Foil Gold Cord, Gold and Silver Ribbon, Wattolyn, Imported Fancy Papers. In attendance: L. Persenico and W. R. Ederer.

## Directory of Exhibitors—Continued

**CLINTON CORN SYRUP REFINING CO.**, Clinton, Iowa. (No. 59, Ball Room, North.) Manufacturers of corn syrup, corn starches and corn sugars. In attendance: Mr. W. R. Smith, General Manager; Dr. A. P. Bryant, Manager of Operations, and Messrs. G. E. Corson and R. C. Jones, Chemists.

**CONTINENTAL PAPER & BAG MILLS CORP.**, New York City. (No. 105, Ball Room.) Exhibiting regular line of glassine bags, candy bags, wrapping paper and paper napkins. Also New Pack Glassine Tubes for the packing of bar goods. They will also feature hand-made satchel bottom bags, which particularly lend themselves to display purposes. Miss Eleanor Bloom of the New York office will be in charge, assisted by the representatives of their Chicago office.

**CRESCENT MANUFACTURING CO.**, Seattle, Wash. (No. 129, Mezzanine, Center.) Exhibiting "Mapleme." Mr. E. G. Hamel of Chicago office in charge.

**CRYSTAL GELATINE CO.**, Boston, Mass. (No. 51, Exhibition Hall, West.) Mr. G. W. Gethro, in charge.

**DONALD F. DUNCAN, INC.**, Chicago. (No. 148, Mezzanine.) Exhibiting wood novelty containers. In attendance: Mr. Donald F. Duncan, President; Mr. E. H. Bergin, Mr. E. G. Gordon, Mr. E. T. Peterson.

**THOS. W. DUNN COMPANY**, New York City. (No. 47, Exhibition Hall, West.) Gelatine. Mr. F. E. Hollweg, in charge.

**DUPONT CELLOPHANE COMPANY**, Wilmington, Del. (No. 106, Ball Room, Center.)

**ELDER & ROBINSON**, Chicago. (Nos. 8, 9 and 10, Exhibition Hall, Right Center.) Exhibiting E & R Plastic Candy Maker. Mr. Earl B. Elder in charge.

**EPPELSHEIMER & COMPANY**, New York City. (No. 156, Mezzanine.) Exhibiting complete line of over 3,000 designs of molds for making chocolate bars, cakes and fancy goods, and double molds for making hollow chocolate figures—designs suitable for all of the holidays. Also a new machine used to distribute the chocolate on the inside of the molds as it is cooling. In attendance: Mr. W. H. Warren, Mr. H. A. Shera and Mr. J. H. Kingsley.

**ESSEX GELATINE COMPANY**, Boston, Mass. (No. 61, Ball Room.) Featuring "SX" brands of Edible Gelatine, together with marshmallows and candy made by various candy manufacturers to show results obtained in its usage. In attendance: L. B. Esmond, Manager; R. E. MacFarland, A. G. Crowl and Werner W. Duecker, Research Chemist, Mellon Institute, in charge of research work on use of gelatine in confectionery.

**FERGUSON & HAAS, INC.**, New York City. (No. 20, Exhibition Hall, Right Center.) Demonstrating a high speed Wax Paper Wrapping and Sealing Machine. In attendance: Mr. Edward Haas and Mr. A. B. Hull.

**FINNELL SYSTEM, INC.**, Hannibal, Mo. (No. 117, Ballroom, Entrance.) Exhibiting Nos. 20, 17, 15 Scrubbing Machines, Nos. 6 and 4 Mop Trucks, No. 5 Mopping Machine and No. 10 Water Absorber, also the new model Finnell Household Electric Floor Scrubbing, Waxing and Polishing Machine.

**THE FLEISCHMANN TRANSPORTATION CO.**, New York City. (No. 143, Mezzanine.) Exhibiting various types of balsa boxes for shipping.

**FOOTE & JENKS**, Jackson, Michigan. (No. 91, Ballroom, Center.) Exhibiting flavors and flavor concentrates built especially for the candy industry featuring "Vogue Maple." In attendance: C. H. Redding, Sales Manager; C. R. Foster, Vice President, and A. A. Koch.

**THE FOXON COMPANY**, Providence, R. I. (No. 161, Mezzanine.) Exhibiting stock designs in seasonal box wraps, box tops, ribbon slides and box bands for all the standard holidays and special candy buying seasons. Also new imported line of French box novelties selected from the recent fair at Vienna. In attendance: Mrs. Mildred Paul, Secretary and Sales Manager; Miss Grace A. White, Assistant Sales Manager, and Miss Katherine Rose, Chicago Sales Manager.

**HARRY L. FRIEND**, Boston, Mass. (No. 150, Mezzanine.) Exhibiting new Friend-Rex Cream Center Maker, and assortment of handrolled centers for bar and bulk goods produced with these improved models. Harry L. Friend, designer and manufacturer of the Rex machine, will be in charge.

**H. GAMSE & BRO.**, Baltimore, Md. (No. 78, Ball Room.) Exhibiting candy box tops and wrappers, especially Christmas and Easter designs; also original designs not yet used. In attendance: Norman I. Loewenberg and Herman Gamse.

**GENERAL ELECTRIC COMPANY**, Schenectady, N. Y. (Nos. 101, 102 and 103, Ballroom.) Exhibiting motors, controls, heating units and Textolite gears. Mr. A. C. Kidder in charge.

**GRAHAM BROTHERS**, Detroit, Mich. Motor Trucks. (No. 14, Exhibition Hall.)

**J. W. GREER CO.**, Cambridge, Mass. (Nos. 41, 42, 43 and 44, Exhibition Hall.) Exhibiting the Greer Coater Cooling Unit and the new Greer Chocolate Melting Kettle. In attendance: Mr. and Mrs. J. W. Greer, Mr. and Mrs. F. W. Greer, Mr. Alfred Martini.

**HAUG & CO.**, New York. (No. 53, Exhibition Hall.)

**IRA L. HENRY COMPANY**, Watertown, Wis. (No. 145, Mezzanine, Center.) Exhibiting Heart-shaped boxes of all types and hand-made fancy boxes. In attendance: Mr. E. F. Goecke and N. T. Yeomans.

**H. L. HILDRETH CO.**, Boston, Mass. (Booth No. 52, Exhibition Hall.) Exhibiting pulling machines.

**HOBART MFG. CO.**, Troy, Ohio. (Booth No. 15, Exhibition Hall.)

**A. HUHN MFG. CO.**, Minneapolis, Minn. (Booth No. 13, Exhibition Hall.) Exhibiting the Huhn Continuous Starch Dryer and Cooler. In attendance: Mr. A. G. Huhn, Mr. A. F. Maday, Mr. A. W. Patzlaff.

**HY-SIL MANUFACTURING CO.**, Revere, Mass. (No. 133, Mezzanine.) Exhibiting tinsel and novelty ribbons and tinsel cords for tying candy packages. Mr. B. Weld will be in charge.

**IDEAL COCOA & CHOCOLATE COMPANY**, Lititz, Penna. (No. 111, Ballroom.) Exhibiting chocolate coatings, liquors and cocoa powders. In attendance: Thos. Waddell, Sales Manager; C. F. Southward and G. D. Bitzer.

**THE INTERNATIONAL COMPANY**, Baltimore, Md. (No. 76, Ballroom, Center.) Raw materials, featuring "Velvet" dipping cherries.

**KELLER-DORIAN PAPER CO.**, New York City. (No. 146, Mezzanine, Center.) Exhibiting fancy cover papers. In attendance: Mr. Elmer S. Moore and Mr. John Ducasse.

**KEYSTONE FRUIT PRODUCTS CO.**, Hamilton, Ohio. (No. 50, Exhibition Hall.)

**H. KOHNSTAMM & CO.**, Chicago. (Nos. 82 and 83, Ballroom.) Exhibiting Atlas Certified Colors, Genuine Fruit Extracts and Imitation Flavors. In attendance: Mr. E. G. Kohnstamm, President; Mr. Louis Wolff, Mr. Harold Weil, Mr. Hugo Pulver, Mr. A. C. Hassel, Mr. E. A. Pfeiffer and Mr. W. H. Nelson and Mr. George Verry.

**PETER CAILLER, KOHLER COMPANY**, New York City. (No. 108, Ballroom, Center.) Exhibiting Peter's Superlative Chocolate Coatings, also Peter and Nestle solid chocolate bars. In attendance: A. C. Ferry, J. H. Baker, R. E. Dempsey, J. R. Rice and Guy T. Jenkins, Manager, Coating and Cocoa Sales.

**KNICKERBOCKER CASE CO.**, Chicago. (No. 109, Ballroom, Center.) Exhibiting salesmen's sample cases especially designed for displaying samples of confectionery.

**FRED LAUER**, Chicago. (No. 130, Mezzanine.) Exhibiting miniature cedar chests, featuring the "Plaquette." In attendance: Mr. Lauer and Mr. J. A. Ruskin.

**LEHMAIER SCHWARTZ & CO.**, New York. (No. 151A, Mezzanine.) Foils.

## Directory of Exhibitors—Continued

**THE MANUFACTURING CONFECTIONER PUBLISHING CO., Chicago.** (No. 163, near elevator lobby.) Exhibiting a review of Editorial program the past five years, arranging the subjects under classification of Technical, Purchasing and Sales Promotion. Also announcing program of accomplishments for the near future, which include the publishing of

"A Hand Book of Confectioners' Raw Materials," giving the history, physical properties, suggested specifications and points on buying, storing, handling of each material.

A comprehensive, practical, up-to-date book on "Candy Cost Finding and Accounting."

A "Code of Cleanliness, Sanitation and Hygiene for the Manufacture and Handling of Confectionery," supplemented by a manual giving suggested methods of practice for maintaining proper standards of cleanliness and safeguarding the purity of candy—"the aristocrat of food products."

A feature of the exhibit will be the initial presentation of the design for a "Purity Label"—a symbol of certification of candy which is made of pure materials, by clean processes and healthy workers—to be attached to or appear on each individual wrapper or package put out by manufacturers who qualify for such certification. A plan for making sanitary surveys and inspections by competent, accredited sanitarians, and acquainting the general public with the significance of the "Purity Label," will also be presented. Also data of service to confectionery supply and equipment manufacturers in planning a successful selling campaign to manufacturing confectioners.

In attendance: Earl R. Allured, Editor-Publisher; I. K. Russell, Associate Editor; Carey P. McCord, M. D., of the Industrial Health Conservancy Laboratories; Prudence M. Walker, Circulation Manager; and Master James Walker Allured, Inspiration Extraordinary and Future Editor-in-Chief.

**JAMES B. McKEAGE, Port Jervis, N. Y.** (No. 38, Exhibition Hall, Center.) Exhibiting and demonstrating the "Forgrove" assorted chocolate foiling machines.

**McGRAW PAPER BOX COMPANY, New York City.** (No. 62, Ballroom.)

**MID-WEST BOX COMPANY, Chicago.** (No. 99, Exhibition Hall, Center.) Exhibiting Mid-West Corrugated fibreboard products, featuring shipping containers designed for confectioner's use.

**THOS. MILLS & BRO., Philadelphia, Penna.** (No. 25, Exhibition Hall, Center.) Confectioner's machinery.

**MILWAUKEE PRINTING CO., Milwaukee, Wis.** (Nos. 71 and 96, Ballroom.) Exhibiting glassine wrappers, radio metal wrappers, spot gummed window strips, box wrappers, display cards, box glassine inserts, stay-up stickers, outdoor signs, counter displays and direct mail literature. In attendance: Messrs. W. Heller, R. Hanson, L. Zimmerman, C. Ackerman, Tom Smith, Chas. Ebert and Hugh Campbell.

**MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis.** (No. 81, Ballroom.)

**NATIONAL ANILINE & CHEMICAL CO., New York City.** (Nos. 23 and 24, Exhibition Hall.) Exhibiting "National" Certified Food Colors. Exhibit in charge of Dr. L. Matos, assisted by John Young of the New York office, F. W. Green, Dr. F. E. Beecher and other members of the Chicago office.

**NATIONAL BUNDLE TYER COMPANY, Blissfield, Mich.** (Nos. 140 and 141, Mezzanine.) Exhibiting and demonstrating the "Saxmayer" Bundle Tying Machines.

**NATIONAL EQUIPMENT COMPANY, Springfield, Mass.** (Nos. 26, 27, 28, 29 and 31, Exhibition Hall.) Exhibiting the 1926 model Enrober with attachments and also a chocolate kettle. In attendance: Frank H. Page, A. L. Bausman, Howard C. Baum, B. E. C. Gillette, Wm. G. Tucker, Ralph Dychacek, Frank S. Moulton and Kenneth B. Page.

**NEWCRAFT COATING MACHINE CO., Springfield, Mass.** (Nos. 45 and 46, Exhibition Hall.) Exhibiting the "Newcraft Coater."

**THE NULOMOLINE COMPANY, New York City.** (No. 154, Mezzanine.) Exhibiting Nulomoline and Convertit, together with samples of candy containing these products. In attendance: Miss T. M. Holicky and Mr. R. S. Taussig of their Chicago office, Messrs. Chas. Fahrenkamp and J. P. Booker of New York office.

**OLD COLONY PACKING CO., Bridgewater, Mass.** (No. 107, Ballroom.) Exhibiting cranberries for dipping purposes.

**ORCHARD PAPER CO., St. Louis, Mo.** (No. 110, Ballroom.)

**HENRY H. OTTENS CO., Philadelphia, Pa.** (No. 84, Ballroom.)

**PACKAGE MACHINERY CO., Springfield, Mass.** (Nos. 112 and 113, Ballroom.) Exhibiting the "Sapal" foil wrapping machine, made in Lausanne, and a toffee wrapping machine. In attendance: George A. Mohlman, Vice President in charge of sales; Mr. H. L. Davis, Western Sales Manager; Mr. H. O. Fischer, Mechanical Engineer, and Mr. Roger L. Putnam.

**PAPER SERVICE CO., Philadelphia, Pa.** (No. 48, Exhibition Hall.) Box cover papers.

**PENICK & FORD SALES CO., Cedar Rapids, Iowa.** (No. 132, Mezzanine.) Exhibiting P & F corn products, syrups and molasses. In attendance: Mr. C. W. Blomhall, Manager Bulk Sales; Mr. L. G. Preston, Mr. D. P. O'Connor and Mr. G. C. Callerman.

**PILLIOD LUMBER COMPANY, Swanton, Ohio.** (No. 1, Exhibition Hall, Entrance.) Exhibiting: general line chests, novelty boxes and other novelty containers for confectionery, made of cedar and other woods, all of which have utility appeal. In attendance: T. J. Pilliod, Manager, A. B. Hill and Mr. L. Wittman.

**RACINE CONFECTIONERS' MACHINERY CO., Racine, Wis.** (Nos. 6 and 7, Exhibition Hall.)

**READ MACHINERY CO., York, Penna.** (No. 30, Exhibition Hall.) Exhibiting the Read three-speed candy beater, an extra heavy duty model machine for mixing, beating, whipping or creaming. Mr. W. E. Overacker, Candy Expert, in charge; Mr. P. D. Hendrickson and Mr. R. H. Lookingbill assisting.

**REEVES PULLEY CO., Columbus, Ind.** (No. 40, Exhibition Hall.) Exhibiting Reeves Variable Speed Transmission Unit which gives an infinite range of speeds between predetermined high and low limits without stopping the machine or interrupting production. Also a new improved type V-belt with split-splice block. Mr. R. F. Reeves in charge.

**SAVAGE BROS. CO., Chicago.** (Nos. 56, 57 and 58, Exhibition Hall.) Exhibiting confectioners machinery and copper work. In attendance: Mr. R. J. Savage, Mr. George F. Savage, Mr. W. P. Halpin and Mr. W. H. Holman.

**F. J. SCHLEICHER PAPER BOX CO., St. Louis, Mo.** (Nos. 11 and 12, Exhibition Hall.) Featuring individual boxes designed for exclusive use by one manufacturer. Exhibit in charge of Mr. B. F. Fisher and the four Schleicher boys, Louis, Allen, Lawrence and Frank.

**H. SCHULTZ & CO., Chicago.** (No. 77, Ballroom.) Fancy paper boxes and counter display containers.

**SEAMAN CONTAINER CORP., New York City.** (No. 123, Mezzanine.) Exhibiting the new Seaman fiber candy pail and other fiber containers for packing and shipping candy.

**SELF LOCKING CARTON CO., Chicago.** (No. 75, Ballroom.)

**THE SETHNESS COMPANY, Chicago.** (Nos. 66, 67 and 68, Ballroom, West.) Exhibiting full line of "Cosco" products, including creams, fondants, caramel pastes, colors, marshmallow toppings, fruit plastics, bouquet flavors, vanillas, etc. In attendance: Mr. C. Henry Sethness, Ralph E. Sethness, Jacob DeVos, B. J. Kennedy and Fred J. Poth.

**SHELLMAR PRODUCTS CO., Milwaukee, Wis.** (No. 87, Ballroom.) Glassine wrappers.

## Directory of Exhibitors—Continued

**THE T. M. SHEPPARD CO.**, Chicago. (No. 142, Mezzanine.) Exhibiting and demonstrating the "Bostitch Fastener" with long arm for closing glassine bags and attaching them to display cards.

**HAROLD A. SINCLAIR**, New York City. (No. 65, Ballroom.) Exhibiting "Delft" Pure Food Gelatines. In attendance: Harold A. Sinclair, Messrs. Frank Z. Woods, H. Howland Sinclair, F. A. Crotty, H. P. Calvert.

**THE SMITH SCALE COMPANY**, Columbus, Ohio. (No. 139, Mezzanine.) Exhibiting complete line of "Exact Weight" Scales for the candy manufacturer. Mr. W. A. Scheuer, Manager of the Chicago office, will be in charge.

**STADLER PHOTOGRAPHING CO.**, New York and Chicago. (No. 124, Mezzanine.)

**A. E. STALEY MANUFACTURING CO.**, Decatur, Ill. (No. 144, Mezzanine, Center.) Corn Products. In attendance: A. E. Staley, President; E. K. Scheiter, R. M. Ives, Wm. H. Randolph, Jr., L. R. Dickinson, J. W. Hixson, James Sleigh.

**WM. J. STANGE CO.**, Chicago. (Nos. 79 and 80, Ballroom.) Exhibiting confectioner's colors and flavors, featuring special line for manufacturers of plastic candies.

**NATHAN M. STONE COMPANY**, Chicago. (No. 89, Ballroom.) Exhibiting the "Vanity" chest and new mottoes for Christmas, St. Valentine's and Mother's Day. Mr. D. Newman and Mr. Geo. J. French will be in charge.

**SUGAR SANDING MACHINE COMPANY**, Baltimore, Md. (No. 2, Exhibition Hall). Exhibiting new Sugar Sanding Machine. In attendance: Mr. Chas. Mahan, President; Miss Alice Mahan, Vice President.

**SUN-MAID RAISIN GROWERS' ASSN.**, Fresno, Calif. (No. 63, Ballroom.) Featuring a new type of raisin candy made with Sun Maid raisons. Tested formulas will be available for gums, jellies, cast cream chocolates, hand rolled chocolates and bar candies. In attendance: J. M. Hill, Chicago office, and the three Sunland demonstrators: Ed. Buchanan, D. J. Watson, and Lewis Herspring—all practical candy men.

**THE TOY KRAFT CO.**, Wooster, Ohio. (No. 104, Ballroom.) Exhibiting Toy Kraft Kandy Toys. Mr. Geo. Heisler will be in charge.

**UNION CONFECTIONERY MACHINERY CO.**, New York City. (No. 60, Ballroom.)

**UNITED CHEMICAL & ORGANIC PRODUCTS CO.**, Chicago. (No. 88, Ballroom.) "UCOPCO" Gelatine. In attendance: Messrs. J. A. Hafner, Wm. M. Korf, J. J. Rawle, T. W. Harrigan, H. G. Coburn, C. S. Butterworth, F. Loefler, M. H. Hayman and P. T. Storr.

**UNITED STATES FOIL COMPANY**, Louisville, Ky. (No. 64, Ballroom.) Exhibiting latest innovation and development in Master Metal Wrappers, Master Metal Cartons, Unifoil Box Wrappers and packages for the confectionery industry. In attendance: Mr. H. G. Hanks, Sales Manager; Mr. C. B. Knickern, Manager of the Container Division, and Mr. R. G. McKay, Chicago Representative.

**UNIVERSAL CANDY & CHOCOLATE MACHINERY CO.**, Springfield, Mass. (No. 18 and 19, Exhibition Hall.) The "Universal" Coater. Ernest Merrow in charge.

**VACUUM CANDY MACHINERY CO.**, Chicago. (No. 16 and 17, Exhibition Hall.) Exhibiting Simplex Vacuum Cookers, continuous cutting machines and Plastic Presses. In attendance: Mr. P. H. Schleuter, B. MacQueen, S. S. Whitehurst, M. L. Probstein and E. C. Moeller.

**VANILLA LABORATORIES, INC.**, Rochester, N. Y. (No. 160, Mezzanine.) Exhibiting Pure Vanilla, Concentrates and Compounds. In attendance: Messrs. C. R. Phillips, F. P. Watts, W. J. Stewart and F. J. Minges.

**J. WERNER & SONS**, Rochester, N. Y. (Nos. 3, 4 and 5, Exhibition Hall.) Exhibiting Confectioners' Machinery. Arthur F. Miller of their New York office in charge.

**WHITE-STOKES COMPANY**, Chicago. (No. 149, Mezzanine.)

**WHITE STAR IMPORT CO.**, New York City. (No. 163, Mezzanine.)

**H. O. WILBUR & SONS**, Philadelphia, Pa. (Nos. 114 and 115, Ballroom.) Exhibiting Wilbur's chocolate coatings and chocolate liquors, featuring their new Milk Coatings; they are also planning a surprise feature. In attendance: Dr. B. K. Wilburg, Mr. Rulon, Mr. S. H. Stayton, Mr. H. O. Stokes, A. W. Pierce and the sales force from Chicago office.

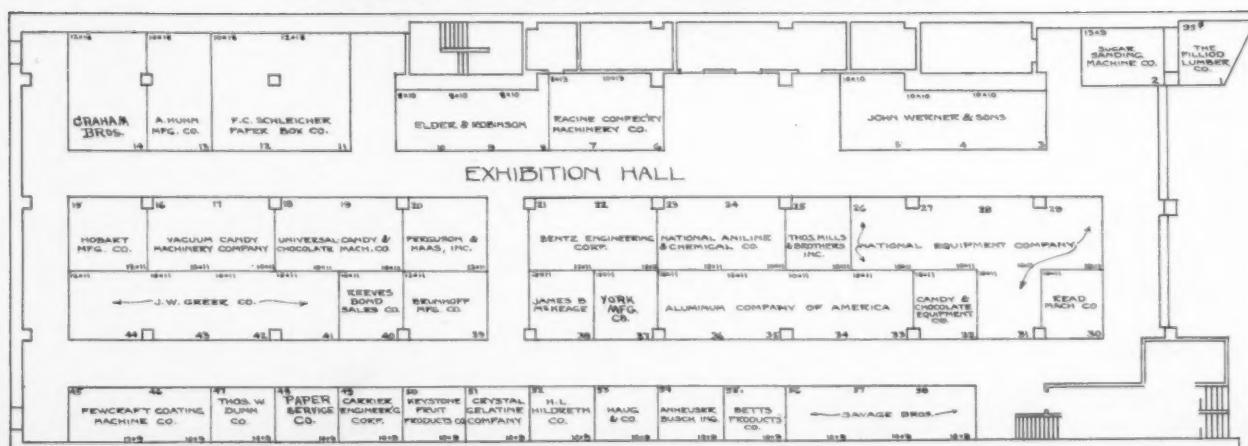
**YORK MANUFACTURING CO.**, York, Penna. (No. 37, Exhibition Hall.) Demonstrating a "York" refrigerating unit.

## Floor Plan of the N. C. A. Exposition

Exhibits No. 1 to 58 in the Exhibition Hall.

Exhibits No. 59 to 119 in the Ball Room

Exhibits No. 120 to 163 on the Mezzanine Floor Proper.



The above floor plan of the Exhibition Hall, which is located at the extreme north end of the Mezzanine floor of the Sherman Hotel, shows the layout of Booths No. 1 to 58, inclusive. Booths No. 59 to 119 are in the Ball Room, directly opposite on same floor. See diagram on opposite page.

## **Floor Plan of the M. C. A. Exposition**

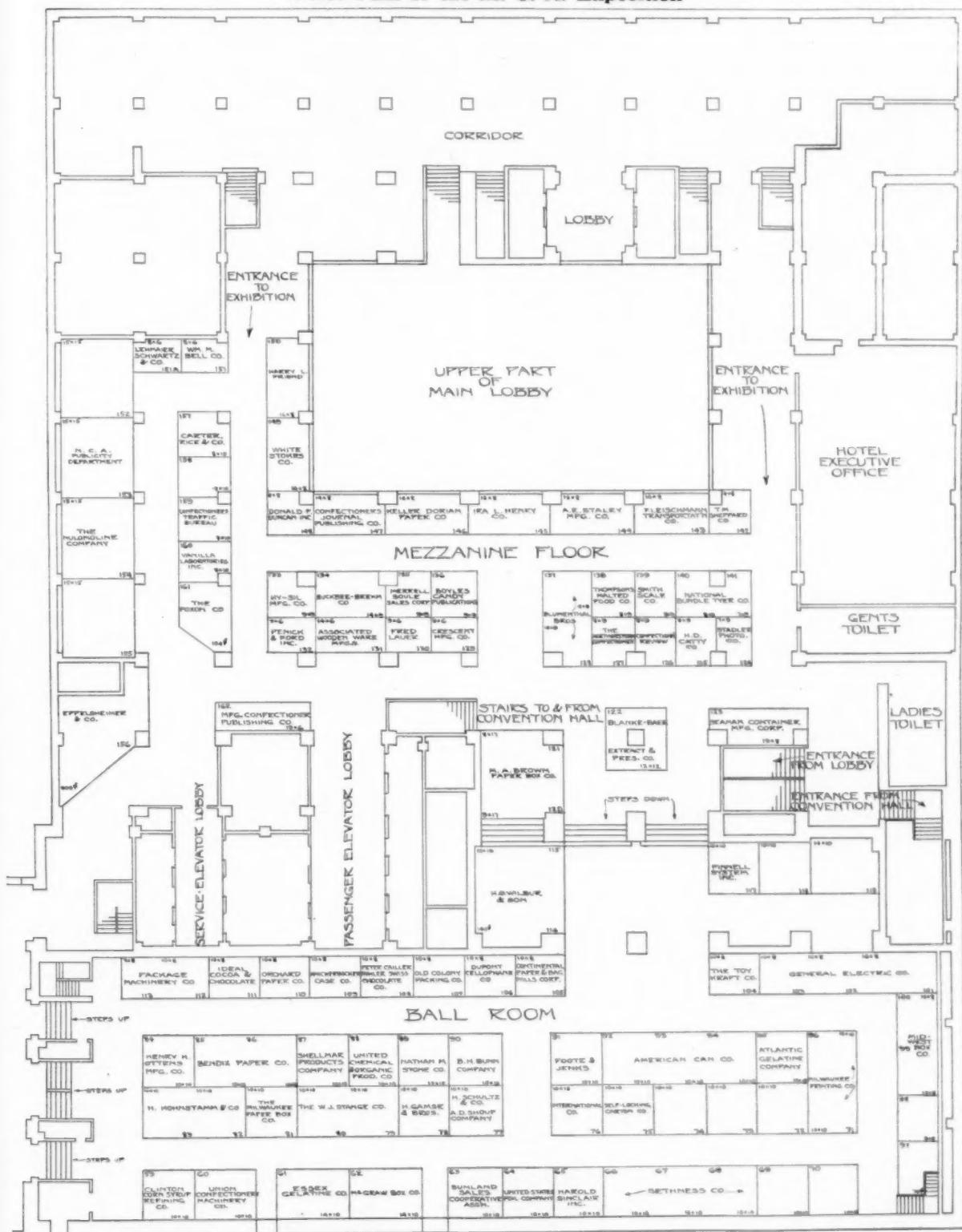


Exhibit Booths No. 59 to 119 in the Ball Room opposite the Exhibition Hall. Booths No. 120 to 162 on the Mezzanine floor proper, which is also opposite (to the east) the Ball Room, directly above the main lobby. See alphabetical directory of exhibitors on page 17.

# The Program of the N. C. A. Convention

## Co-operative Advertising Plan

**T**HE most important matters to be taken up for consideration is the Co-operative Advertising and Educational Plan which has been given first place on the program after the formal forenoon session on Wednesday, May 26th. The forenoon session will be taken up with the President's address and the formal reports of the Secretary, Treasurer and Executive Committee.

For the afternoon session Mr. Harry Collins Spillman of New York City will be the keynoter or headline speaker on this important subject. Mr. Spillman has a national reputation as a forceful speaker on business problems such as Merchandising Campaigns and Co-operative Advertising.

He is exceptionally well qualified to give a rousing talk that will line up every member in attendance enthusiastically in favor of this big idea for the Candy Industry.

Following Mr. Spillman's address, the Plan itself will be presented by Mr. Harry R. Wilson of the Fisher, Brown Advertising Agency, St. Louis, Missouri, who will have complete charge of the details pertaining to putting the Plan into effect.

The entire afternoon will be devoted to the presentation and discussion of the Plan.

## Control of Resale Prices

Another subject of paramount importance to the Industry is the legality of attempts to control resale prices. The legal phase of this question will be discussed by Mr. Colin C. H. Fyffe, General Counsel of the Illinois Manufacturers' Association, who will be the first speaker on the program on Thursday forenoon, May 27th.

Mr. Fyffe is considered to be one of the foremost legal authorities on this subject. He will be followed by speakers announced by the President, who will discuss:

"How Can the Manufacturer Effect This Control?"  
"Does the Jobber Want This Control, and Why?"  
"What is a Fair Profit for the Jobber?"  
"What Support Will the Jobber Give the Manufacturer Who Supports Him?"

These speakers will be followed by a general discussion in which all who desire to do so, will have an opportunity to take part.

The entire forenoon session on Thursday will be devoted to this subject.

## Group Meetings

The Candy Industry is becoming more and more complex, and the merchandising problems peculiar to one branch or division of the Indus-

try are not of any special importance to the other branches or divisions.

It, therefore, seems advisable at this time to dispense with the regular session of the Convention on Thursday afternoon, and we have, therefore, arranged for group meetings of those members who are especially interested in the problems peculiar to their line of business.

The following group meetings will, therefore, be held on Thursday afternoon. A capable chairman has been selected and a definite program arranged for each group meeting:

Package Goods Manufacturers,  
Bulk Goods Manufacturers,  
Bar Goods Manufacturers,  
Label and Wrapper Manufacturers.

Each group meeting will be called to order by the chairman of the meeting at 2:30 o'clock. The room in which each meeting will be held will be announced in the Official Program.

We hope our members will take full advantage of the opportunity which these group meetings will afford to freely and frankly and in a broadminded spirit discuss the serious questions and problems which are of such vital importance to the Industry at this time.

Many valuable suggestions from various members relative to the subjects to be discussed in these group meetings have been received which have been very helpful in arranging the program for each meeting.

## Reports and Election

Friday forenoon, May 28th, will be devoted to the

Report of the Committee on Resolutions,  
Report of the Nominating Committee,  
Election of Officers and Members of the  
Executive Committee.

Reports received from various sections point to a very large attendance. This Convention will undoubtedly be one of the largest ever held by the Association.

You cannot afford to miss it!

**See Entertainment Program on Page 61.**

## NOTICE!

### On the Following 32 Pages

is grouped the advertising  
of supply and equipment  
manufacturers who will  
exhibit at the

**N. C. A. Exposition**

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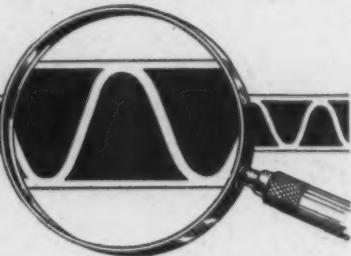
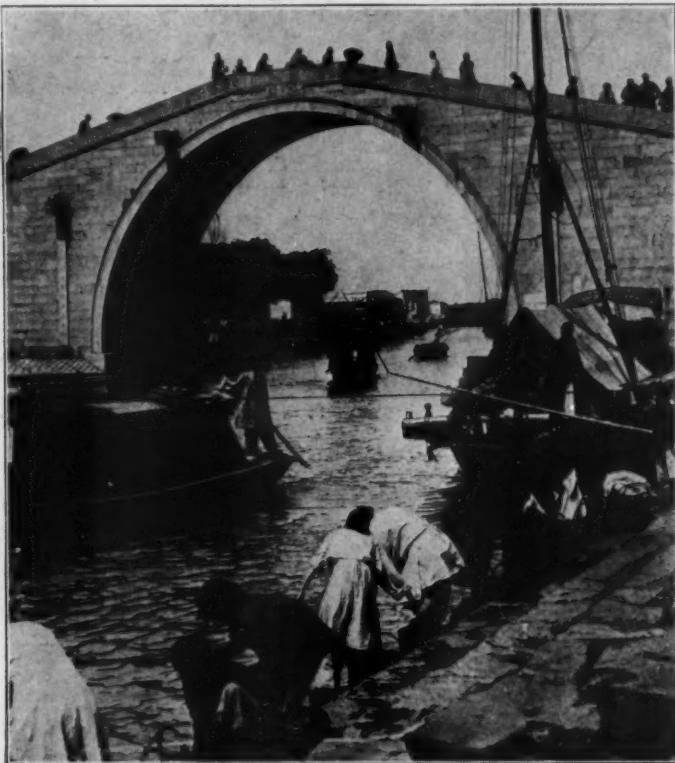
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## EXPOSITION INSERT

Advertisers represented in this 32-page insert are Exhibitors at the N. C. A. Exposition



*In far-away China this thin-arched bridge over the Grand Imperial Canal at Soo-Chow has long supported the endless stream of traffic—from slant-eyed Celestials to heavy laden caravans—in safety.*

*The perfect arch insures its strength.*

## You Can Depend On Mid-West Boxes

The **high, strong, resilient arches** in the corrugated walls of Mid-West shipping boxes are notably superior to similar construction in ordinary containers because of their more pronounced resistance to sudden shock, vibration and weight. The consequent greater strength of all Mid-West "blue ribbon" products is so remarkable and uniform that many big shippers have standardized on these "better boxes."



*The increasing use of Mid-West Boxes in your field is entirely due to their filling a need—  
BETTER*

Definite savings of thousands of dollars are credited to Mid-West shipping containers by many big shippers. Records prove it. Why not let us make an impartial and systematic survey of **your** shipping methods. Perhaps we can adapt our packages to your products with proportionate savings to you. If we cannot save you money we will quickly advise you of the fact.

Remember—Mid-West boxes are equipped with **highest test liners** and will pass the most rigid railroad requirements. Write us of your shipping problems. Let us help you solve them. Our long experience and close contact with shipping and containers are at your service without placing you under any obligation to us.

*Write for our free illustrated "Perfect Package" book.*

# MID-WEST BOX COMPANY

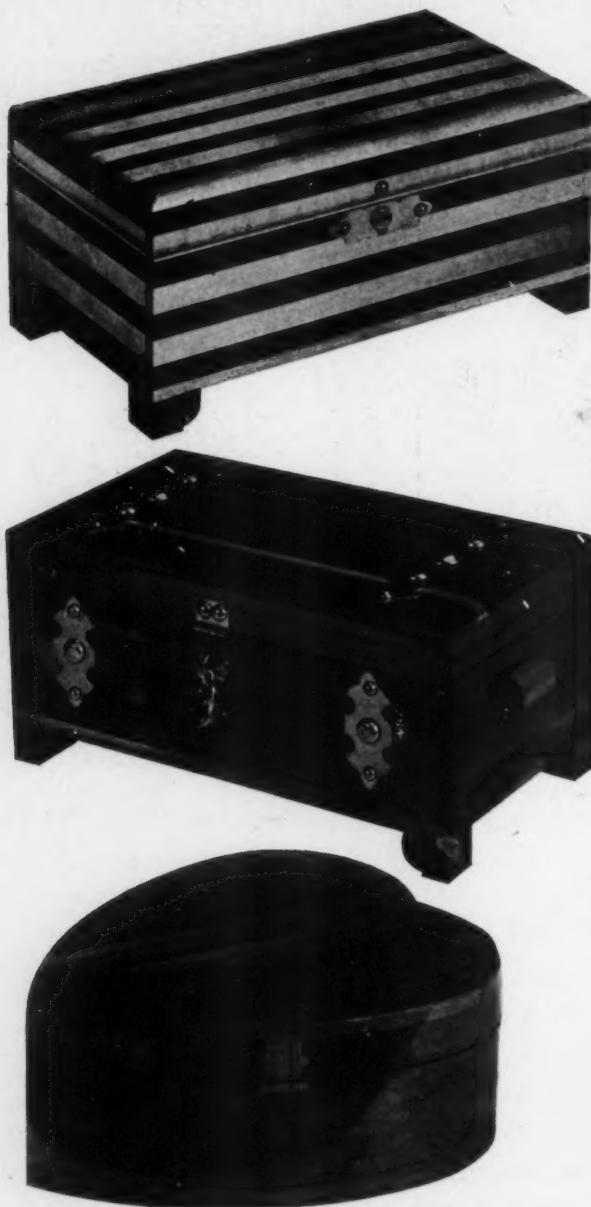
GENERAL OFFICES  
18th Floor, Room 51  
CONWAY BLDG., CHICAGO

Corrugated Fibre  
Board Products



FACTORIES  
ANDERSON, INDIANA  
KOKOMO, INDIANA  
FAIRMONT, W. VA.  
CIRCLEVILLE, OHIO  
CHICAGO  
CLEVELAND, O.

# There's a Sales Boosting Idea in Every Pilliod Container!



See the full line on display  
at Booth No. 1

(Near Entrance to Exhibition Hall)

YOU will find an assortment of candy containers which will be not only a sales stimulant—but a “tonic”—a genuine builder of sales vitality based on sound merchandising features which build profitable sales volume.

You will recognize in the Pilliod containers an opportunity to give your own package line an individuality and striking attractiveness so necessary for a successful sales campaign.

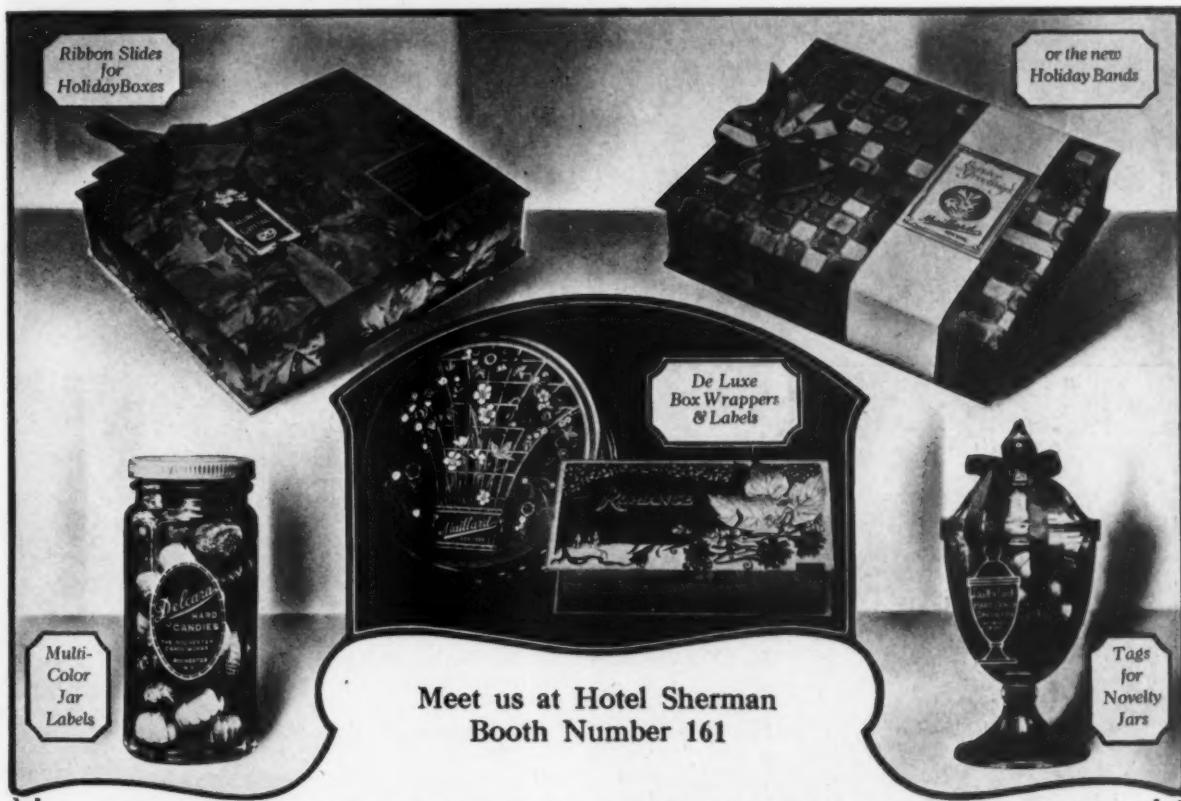
Mr. T. J. Pilliod, Manager, will especially welcome the opportunity of meeting sales executives of the candy industry at the N. C. A. Exposition and to have their co-operation in utilizing the facilities of our specialized plant for producing sales-compelling candy packages.



**PILLIOD LUMBER CO.**  
Swanton, Ohio

*The Pilliod Exhibit will be an inspiration to any sales executive and we hope to meet many candy manufacturers at this exposition. If you cannot attend, then let us send our illustrated literature and quotations.*





## PUT REAL ART INTO YOUR SALES PACKAGES !

Our  
Complete Service  
Designing  
De Luxe Printing  
Embossing  
Die Cutting  
Die Stamping

Tags  
Embossed seals  
Ribbon Slides  
Box Wrappers  
Holiday Bands  
Imported Novelties

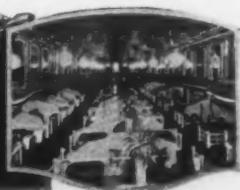
In counter competition the package with the artistic touch wins every time. Its desirable appearance conveys subtly that the contents are of the same merit.

Foxon art package service is complete. With every modern printing process at its command, any new idea can be carried thru quickly. By European connections, the latest art work and novelties can be imported. Put your packaging problems up to the experienced specialty house.

THE FOXON COMPANY  
Main Office and Factory  
PROVIDENCE, R. I.  
Represented in all principal cities



Meet us at the Annual  
**EXPOSITION and CONVENTION**  
of the  
NATIONAL CONFECTIONERS ASSOCIATION  
at CHICAGO—May 24-28-1926  
All under one roof—at New Hotel Sherman



# The SEAMAN

## *Low in Cost—High Resale Value*

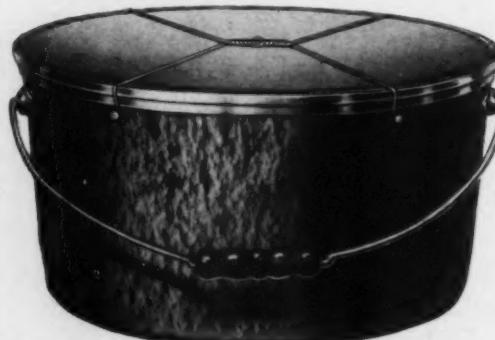
### *Candy Containers*

Superior Quality Candy Pails Produced by the Seaman Fibraknit Process



#### *Fibraknit Candy Pail*

Baled and Wire Sealed. Capacity 30 Pounds.



#### *Fibraknit Squat Candy Pail*

Baled and Wire Sealed. Capacity 15 Pounds.

PRODUCED by the Seaman Fibraknit Process, we are offering to the business world the safest, cleanest, most sanitary, economical and satisfactory container which has as yet been developed by any manufacturing process.

Fibraknit Products are unlike any other. The side walls and bottoms are produced from specially treated long fibred raw materials, woven and interwoven into a closely knitted mass, then moulded into the size and shape required by specially designed automatic machinery. This process yields a product of such wonderful texture as to give extraordinary strength from materials which are lighter in weight than those materials generally employed for similar purposes.

The moulded form is then subjected to processes which increase the tensile strength, seal the pores and insure a container that is moisture-proof, germ-proof and practically air-tight.

Outstanding features which distinguish this new container from all others are as follows:

1. Fibraknit Candy Pails are seamless and covers are so closely fitted as to make this package germ and ant proof, as well as almost air-tight.
2. Fibraknit Products have great strength. There are no seams to open—walls will not crush and damage from side collision so common to ordinary fibre and wooden pails is practically eliminated.
3. The Fibraknit Candy Pail is absolutely Thermos. It resists moisture to a remarkable degree, delivering products very susceptible to changes of temperature in perfect condition after a long freight journey, even across the continent.
4. The 30 lb. Fibraknit Candy Pail weighs about 3 lbs. The consequent saving in transportation charges will be interesting to large users of containers.
5. The bottoms of all Seaman Fibraknit Containers are reinforced with window glass wire. This is so imbedded in the structure as to insure a bottom and lower side walls that will withstand almost any load.
6. Fibraknit Candy Pails have great resale value, as they are lighter in weight than pails of equal capacity and of a quality insuring long and satisfactory service. For general use about the home, farm or factory, they are practically indestructible.
7. Fibraknit Candy Pails are furnished wire sealed and baled.
8. Limitations as to the size and shape of containers are now ended, as we are prepared to supply any size or shape which may seem desirable. Our facilities are so flexible that we are able to develop designs of individuality. We invite inquiries on this subject.
9. We build a specially designed Fibraknit Container which will carry up to 60 pounds of soft candy in perfect condition. See illustration on opposite page indicating how merchandise is carried in 15 pound layers between bridges.
10. Its low first cost, its light weight which insures easy handling in the factory and lower transportation costs, its great strength which minimizes breakage and claims, combine to make this the most economical container on the market.

Our present plant capacity is 10,000 units per day. This may be quickly enlarged if necessary as we have a considerable acreage available, with side tracks and storage facilities for large quantities of raw materials and finished products. Our machine shops are capable of producing the necessary automatic machinery for making special sizes and shapes as may be required.

We invite correspondence with large users of candy pails, drums and other containers and will be very glad to submit samples on request.

Please address all correspondence to our general offices in New York.

# SEAMAN CONTAINER MFG.

# CONTAINERS

## — *Light — Strong — Waterproof*

### *Specially Designed* **Compartment Containers**

We offer the Candy Manufacturer something entirely new in a Compartment Container which will carry up to 60 pounds of Soft Candies **without crushing**. We illustrate a 2-Compartment and a 4-Compartment Container. Each section is designed to carry 15 pounds between the heavy fibre bridges. Chocolates, Marshmallows and other Soft Candies, heretofore always packed in small Containers, may now be packed in large quantities in a single Container. Another advantage of this Compartment Container lies in the fact that assortments may be packed in the one container—saving in container cost, packing cost, transportation cost and handling. We shall be glad to answer inquiries.



### ***Fibraknit Drums***

The illustration below gives you a good idea of the general appearance of our Drums. These containers are designed for all kinds of merchandise requiring a strong, dependable container that is light in weight, water-proof and economical. Our Drums are made by our Fibraknit Process, yielding a product of extraordinary strength. No other container will serve the purpose quite as satisfactorily as this.



## CORPORATION

200 FIFTH AVE.  
NEW YORK, N. Y.

1926 Convention Greetings 1926

# CANDY BOXES

*Unsurpassed in  
Quality and Workmanship*

THE FINEST ORIGINAL CREATIONS

**H. SCHULTZ & COMPANY**

519-531 West Superior Street CHICAGO, ILLINOIS

*The Oldest and Largest Manufacturers of Paper Boxes in Chicago*



## "The eyes have it"

Hardly a day passes that does not bring some story of new successes in the small unit candy business. Somebody conceives a new product—a new name—a new package, and suddenly the whole world seems to be buying that particular confection.

Most candy men are familiar with many such successes. Brunhoff follows them because of the part that Brunhoff point-of-sale-displays take in the selling program. For it is the point-of-sale-display which usually does the final job in putting a confection over with the public.

These candy units are bought largely on the spur of impulse. The bright package in the attractive display on the retail

counter invites you to spend a nickel or a dime. *The eyes have it*—and the repeat orders come rolling home to the manufacturer.

In designing and making point-of-sale-displays the Brunhoff Manufacturing Company has specialized for some thirty-three years. Brunhoff has cooperated with the largest figures in the industry to put their products in the front rank displayed goods. And that also means in the front rank of volume sellers.

Send us your package and we will show you how to get volume out of it.

THE BRUNHOFF MANUFACTURING COMPANY, CINCINNATI  
New York Office, 113 Maiden Lane

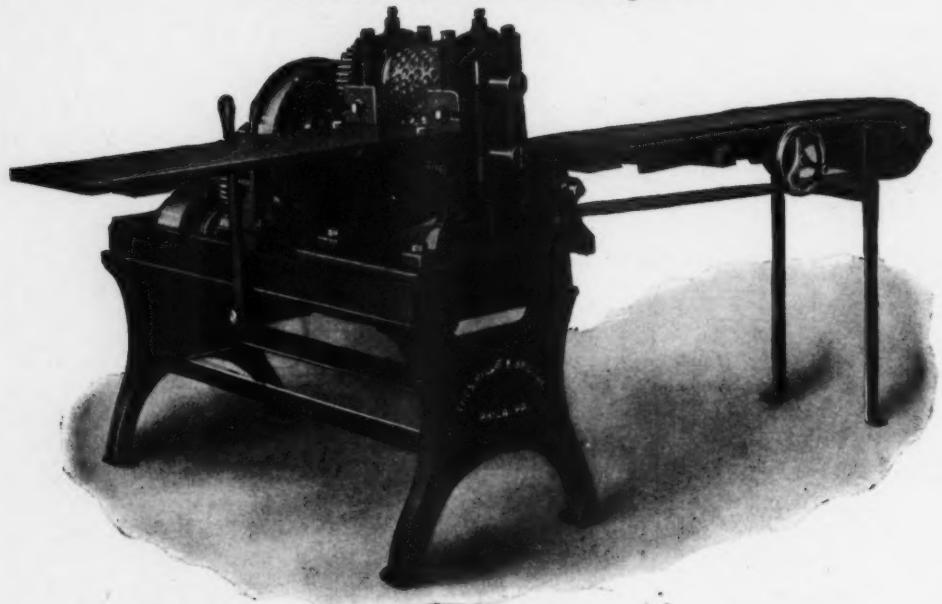
**Brunhoff**  
point-of-sale-displays

# Thomas Mills & Bro., Inc.

1301 to 1315 North Eighth St.

Philadelphia, Pa.

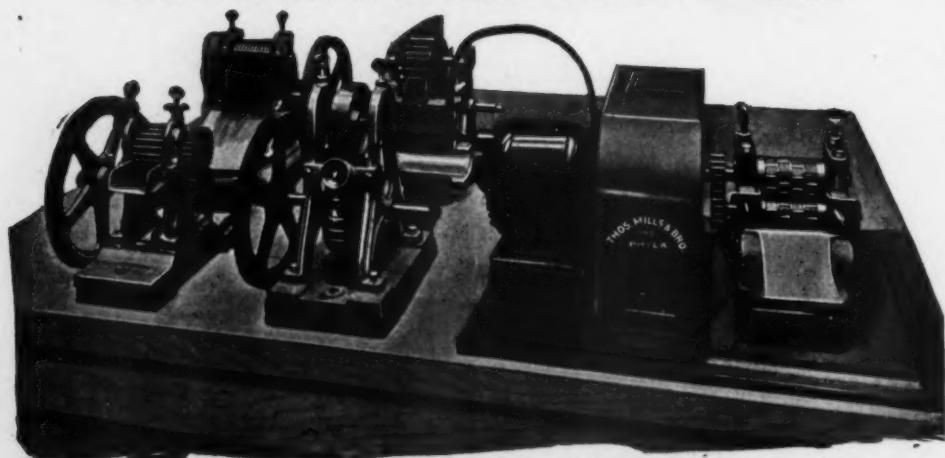
## Large Power Drop Frame with Stand and Endless Belt Conveyor



**Have You Our Latest Catalogue on Entire Line of  
Candy Factory Equipment?**

*If not, same will be sent on advice as to just what machinery is required.*

## Electric Motor Attachment for Small Machines



**WE HAVE MANUFACTURED CONFECTIONERS'  
EQUIPMENT SINCE 1864**







Huyler's "Colonial"  
Candy Box

## American Can Company

NEW YORK

CHICAGO

SAN FRANCISCO



## If it appeals to Her—

*W*HAT Milady wants she usually gets. Consider the rise of the closed car, how it has out-stripped the open style in spite of a heavy difference in price.

A decorated metal package is a fine closed body—for your confections. There is protection in it—and beauty—and distinction. Could candy be more acceptable than in a box such as that shown on the reverse of this page?

Such packages attract notice in the store—mothers, wives and sweethearts are delighted to get them—they bring your confections to the time and place of eating in the best possible condition.

DECORATED metal boxes have "come in"—just as closed cars did—because they appeal to women, and therefore to men. Is it any wonder customers order more and more of the lovely Canco packages?

**American Can Company**

NEW YORK

CHICAGO

SAN FRANCISCO



# For Fresher Candy and Larger Sales—

## WAXED-GLASSINE WRAPPING

You know how important it is to keep your dealers' stock *fresh*—fresher candy means bigger sales.

That is why you should look into waxed-glassine wrapping.

This type of wrapping gives the best protection against excessive moisture or dryness—keeps brittle candy crisp and fresh, and cream candies moist and tender.

Waxed-glassine makes a much better appearance than the ordinary waxed-paper wrapper. It is waxed only on the inside, and the glassine outer surface does not gather dust as a waxed surface does. Being more transparent than waxed paper, it gives better display to the package. Waxed-glassine also has the advantage of permitting the use of printed end-seals.

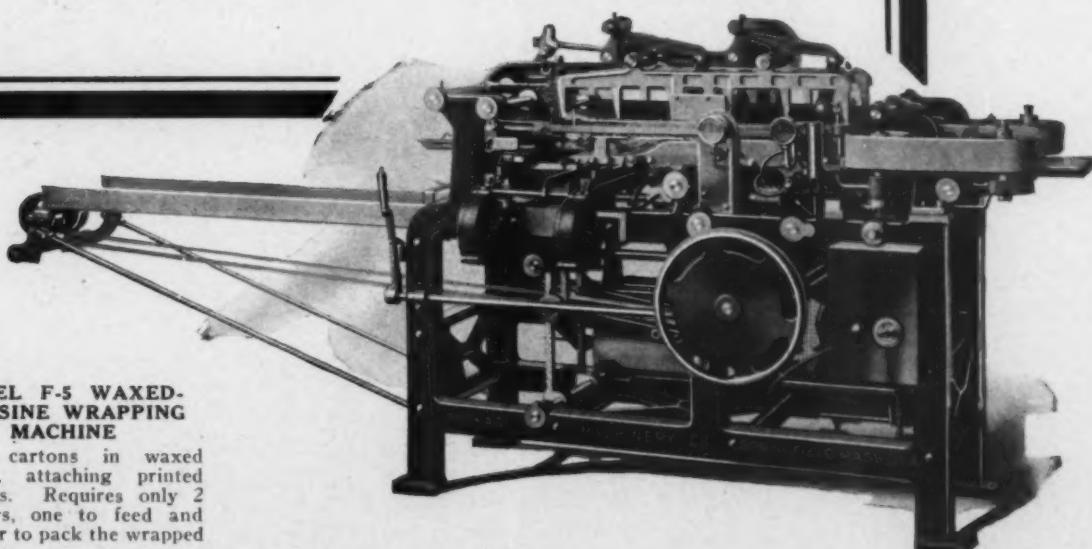
Hard candies, cream candies, bon-bons, marshmallows, popcorn, cough drops—every type of candy needs the utmost protection to ensure satisfaction to the consumer—and the waxed-glassine wrapper is the ideal way to secure this protection.

Send us a sample of your package, and give us an idea of your daily output. We will return your package, wrapped in glassine, and give you complete details and cost figures.

**PACKAGE MACHINERY CO., Springfield, Mass.**

New York: 30 Church Street

Chicago: 111 W. Washington Street



**MODEL F-5 WAXED-  
GLASSINE WRAPPING  
MACHINE**

Wraps cartons in waxed glassine, attaching printed end-seals. Requires only 2 operators, one to feed and the other to pack the wrapped packages.

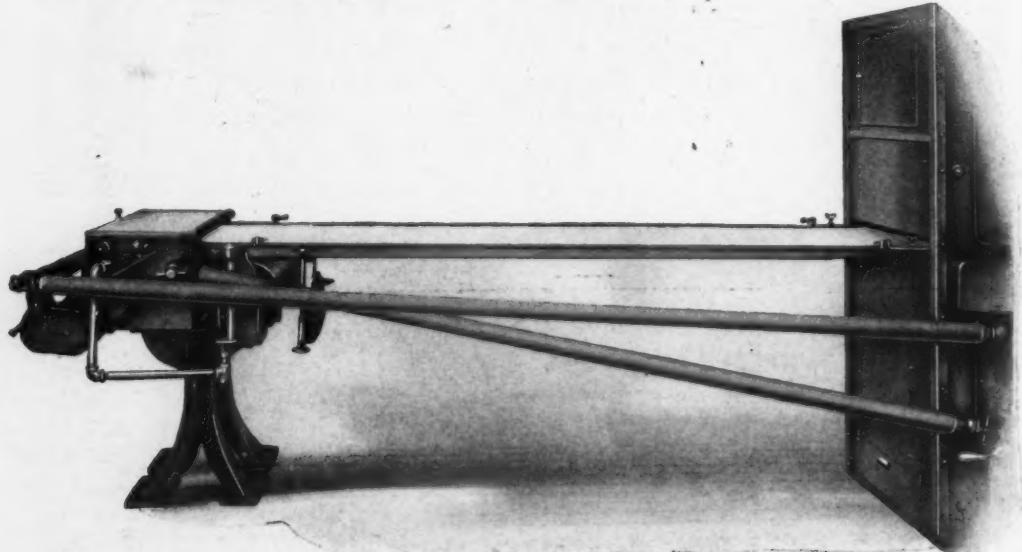


## *To insure — the lasting quality of your chocolates*

Double coat the  
bottoms with this  
**BOTTOMING  
ATTACHMENT**  
on your  
**ENROBER**

THIS attachment insures a uniform, heavy coating on the bases of the centers by depositing a first bottom before they pass through the Enrober.

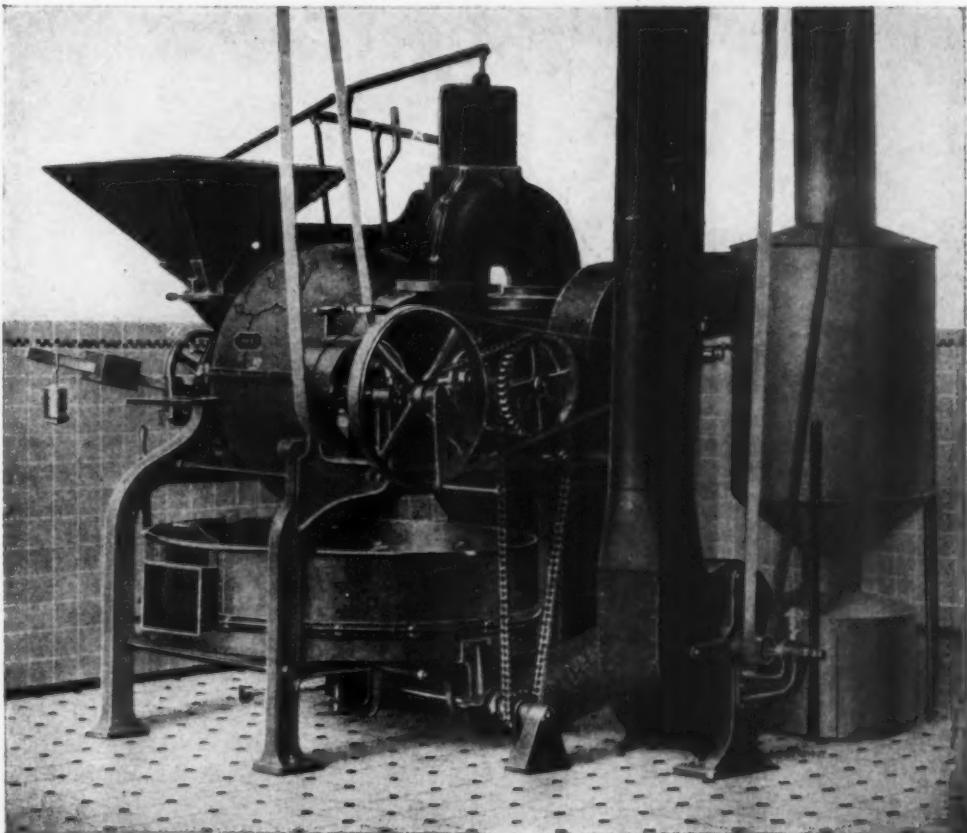
This gives you a firmer, better lasting and improved finished product. Investigate the advisability of adding this to your Enrober equipment. Write us today.



**National Equipment Company**  
Largest Manufacturer in the World of Candy and Chocolate Machinery  
Springfield, Massachusetts, U.S.A.



## COMBINATION

**Cocoa Bean Cleaner, Roaster and Cooler****1200 Pounds Per Hour***and we can prove it!*

The "SIROCCO" will positively end your roasting troubles. Substantially constructed according to scientific and newly evolved principles, automatically operated, this machine is a marvel to all who have watched its performance. Here is what it will do:—

- 1—Handles beans direct from bag, removing every particle of dust and foreign matter — something no other cleaner will do.
- 2—Each bean is scientifically roasted in a whirling, heated air-blast—no contact with hot surfaces.
- 3—Roasting time automatically controlled—ideal for low or high roast.
- 4—Ingenious suction and patented stirring device insures almost instantaneous cooling with automatic discharge.
- 5—Fuel bills reduced 400%.
- 6—Big saving in floor space and power consumption.

*Can be seen in operation in Chicago during N. C. A. Exposition Week, May 24th to 28th. Inquire Booth 32.*

**CANDY & CHOCOLATE EQUIPMENT COMPANY, Inc.**

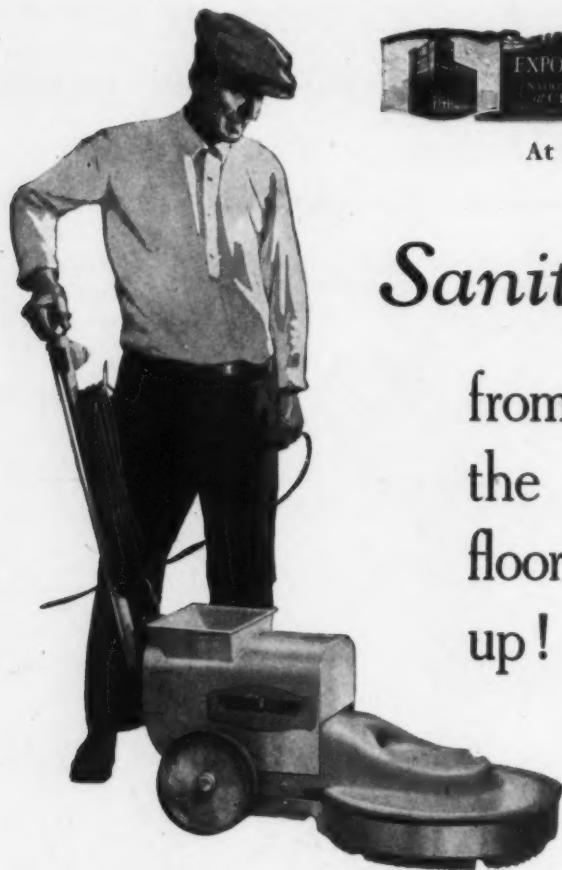
*Exclusive Selling Agents, United States and Canada*

139-41 Charles Street

NEW YORK



At Booth No. 117



## Sanitation—

from  
the  
floor  
up!

Cleanliness is not an incidental. In food product factories it is of prime importance. It is the essence of sanitation.

In mixing rooms, baking rooms, and shipping rooms, in offices and corridors, the FINNELL Electric Floor Machine is an invaluable aid to sanitation. It insures clean floors whether they are wood, tile, cement, linoleum or any other material.

It is virtually impossible to remove all the dirt from a floor by mopping. Hand scrubbing is hardly more likely to achieve complete cleanliness. But the FINNELL untiringly scours every crack and crevice, rinsing as it goes and leaving the floor clean.

The same FINNELL that can scrub your work rooms clean, removing every bit of sticky glucose or chocolate, can go right into your office and polish the linoleum floor. An instant change of the brushes is all that is needed.

Write for free booklet "Your Questions Answered by Users." If you attend the convention, be sure to visit us at Booth No. 117.

**FINNELL SYSTEM, Inc.**

*Established 1906*

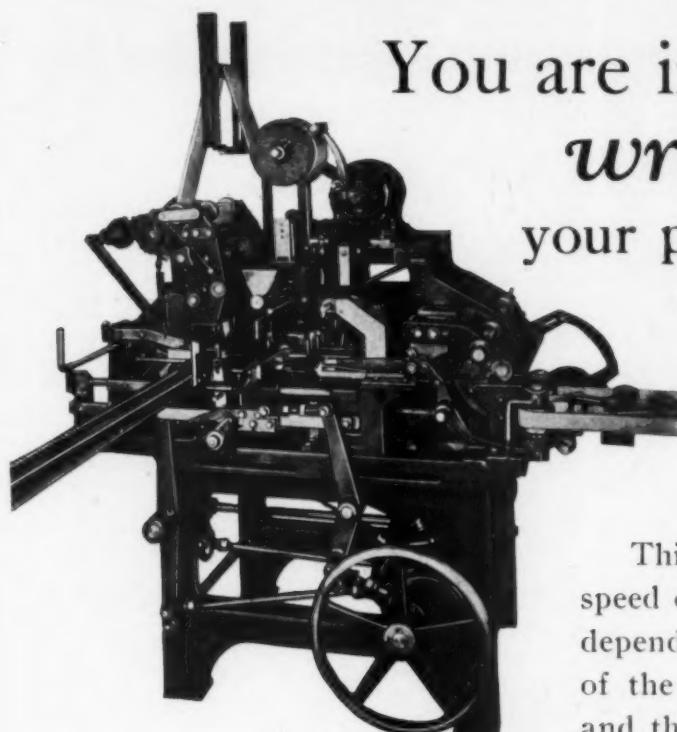
District Offices in Principal Cities

25 North Collier Street

Hannibal, Mo.

*Power Scrubbing Headquarters for Twenty Years*

**FINNELL**  
ELECTRIC FLOOR MACHINE  
*It Waxes~It Polishes~It Sands~It Scrubs*



Model S

You are interested in  
*wrapping*  
 your packages neatly  
 and securely at  
*minimum*  
*cost!*

This machine operates at a speed of 100 to 175 per minute, depending on the size and shape of the package to be wrapped and the character of the wrapper used.

When paper or other material that can be satisfactorily gummed is used for a wrapper, a gumming device is provided for end folds; also for longitudinal seam when required.

*See the machine arranged for wax paper wrapping and heat sealing operating at Booth 20, National Confectioners' Exposition, Chicago*

*Other wrapping machines for different requirements  
 Send us samples and let us give you full particulars in regard to wrapping them*

**Ferguson & Haas, Inc.**

515-521 Greenwich Street, New York City



# SIMPLEX VACUUM COOKERS

Will make hard candies and suckers that stand up with the lowest material cost.



Produce the driest and brightest satin finish.



The perfect method of cooking pure sugar or any percentage of sugar and corn syrup.

Operate by gas, steam or coke.

Liberal terms — our deferred payment plan gladly given to any purchaser of Simplex Equipment—only a small amount of cash required.



STEAM COOKER—OPEN

## Vacuum Candy Machinery Co.

Ravenswood & Lawrence Aves.  
CHICAGO, ILL.

74 Pearl St.  
JERSEY CITY, N. J.

# Announcing— THE E & R AUTOMATIC PLASTIC CANDY MAKER

You can now secure the high speed, American, automatic, plastic candy forming machine which manufacturers have been awaiting!

Production 3,000 to 5,000 pounds a day of perfectly sealed, beautifully formed plastic candy (depending upon the size of pieces made), with ONE operator at the machine!

QUALITY OF GOODS PRODUCED UNEQUALED  
MORE SPEED

LESS LABOR TO OPERATE

LESS FLOOR SPACE REQUIRED

INTERCHANGEABLE DIES

LOW FIRST COST OF EQUIPMENT

LOW COST OF EXTRA DIES

See This Marvelous New Development at the  
**NATIONAL CONFECTIONERS' ASSOCIATION EXPOSITION**

BOOTHES 8, 9, 10, SHERMAN HOTEL, MAY 24-28

Place Orders before June 15th—for August and September Delivery

Figure for yourself the tremendous savings this machine will make on your production over your present methods and write today for information and prices.



**ELDER & ROBINSON COMPANY**

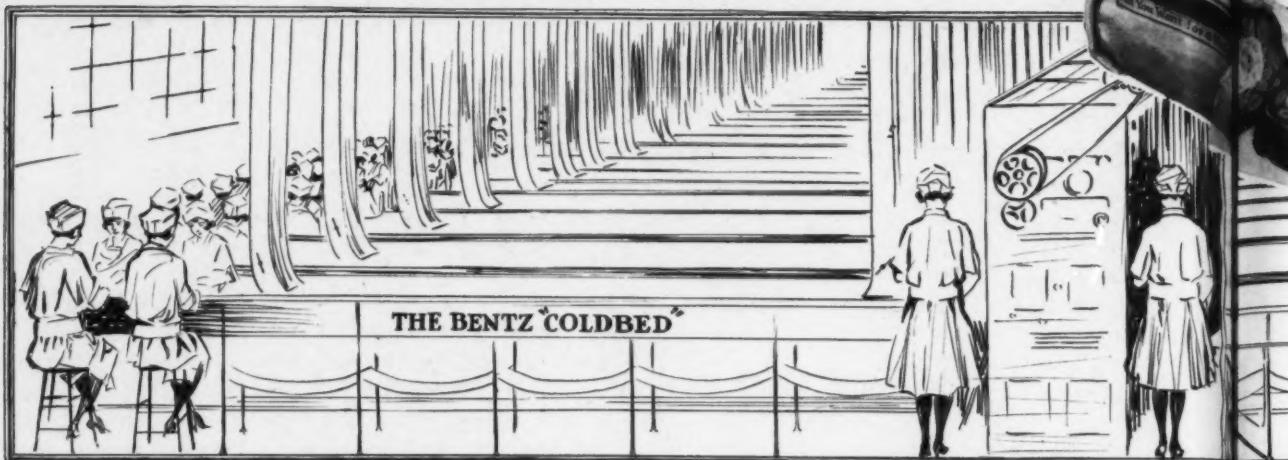
*Eastern Representative*

**JOHN WERNER & SONS, Inc.**  
ROCHESTER  
N. Y.

Alamac Hotel  
NEW YORK CITY

5711 W. Chicago Avenue  
**CHICAGO, ILLINOIS**

# 22 BENTZ "COLD BEDS" Cooling Centers

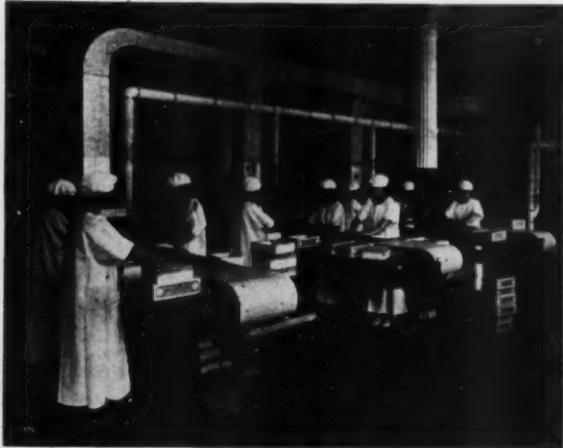


## A total of 44 COLDBEDS

used in the cooling, coating and packing of over 2,000,000 "Baby Ruth" bars and a half million other Curtiss Candy Specialties

### Per Day!

The idea of using "Coldbeds" to cool the centers before going through the enrober originated in the Curtiss plant. Another battery of "Coldbeds" at the other end of the cooling machine, cool and "set" the chocolate very rapidly, necessitating 20 girls (10 on each side) at the packing section of each unit.



Nearly 500 Coldbeds in Use  
in the candy and biscuit industries of U. S. A.



Where we will demonstrate a Bentz "Chillblast" and exhibit the Bentz "Coldbed," also the two latest successes in Bentz confectioners' equipment: The Bentz Starch Dry Room and the Bentz Crystallizing unit.

**BENTZ ENGINEERING CORP.**  
661 Frelinghuysen Ave., Newark, N. J.

122 Greenwich St.  
New York, N. Y.

123 West Madison St.  
CHICAGO



Units No. 2, 3 and 4, Curtiss Candy Co., where 26 Coldbeds are installed.

OTTO V. SCHNEIDER  
PRESIDENT

OFFICE OF THE  
CURTISS CANDY  
CHICAGO - N.Y.

Bentz Engineering Corporation  
123 West Madison Street,  
Chicago, Illinois.

Gentlemen:-

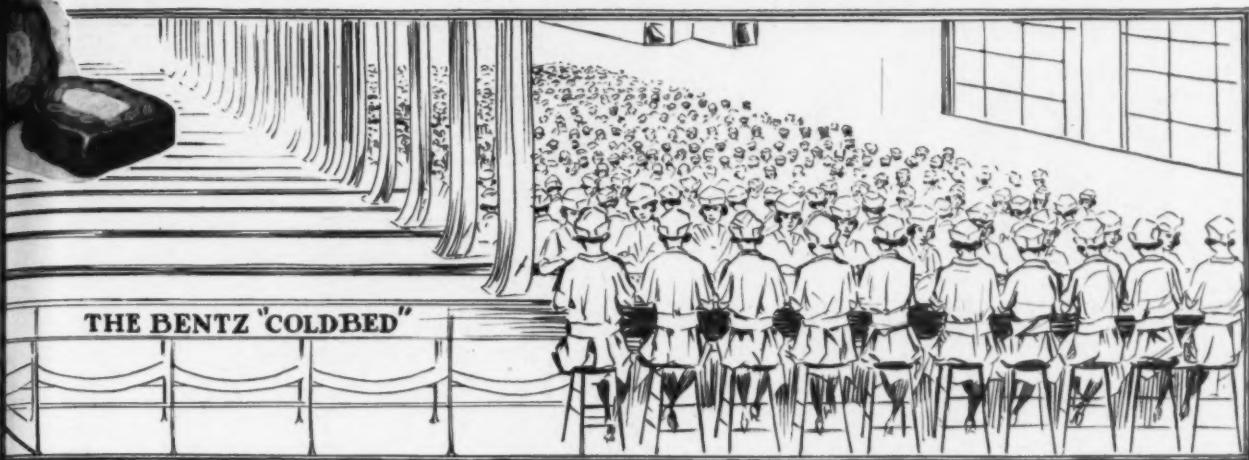
About two years ago we had "Chillblast" equipment, consisting of our plant at 750 Brainerd and a study of various makes and apparatus.

This equipment gave us complete satisfaction, so we unhesitatingly ordered our plant as well and to cool ty-two standard "Chillblast" late coated bars in the "COLDBEDS" for cooling. We have also installed two "CHILLBLASTS" aggregating 1000 lbs.

Should we plan another factory that we would like to have your engineering equipment.

Thanking you for your interest in our new plant.

# and 22 COLDBEDS Setting Chocolate



Inasmuch as it is impossible to secure suitable photographs of the installation of Bentz equipment in the factories of Curtiss Candy Co., the above composite sketch serves the purpose of illustrating the fact that 44 Bentz "Coldbeds" are in use in the coating and packing of "Baby Ruth" and other Curtiss specialties—18 coldbeds in plant No. 1 at 750 Briar Place, and 26 coldbeds at 311 East Illinois St., Chicago.

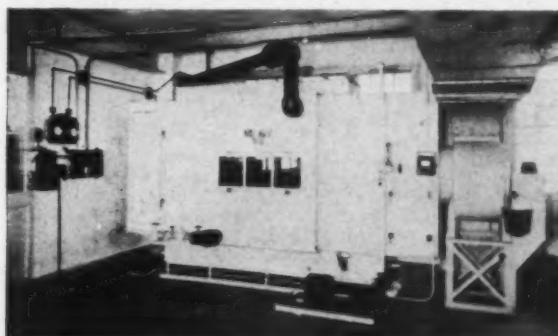
## Bentz Engineering Service

THE tremendous success of the Bentz equipment for cooling chocolate coated goods lies in the fact that we have approached the confectioners' problems first from an engineering viewpoint.

The problem of controlling atmospheric conditions in the plant and extracting heat from the chocolate coating, after the goods are delivered from the coating machine, is essentially a job for professional refrigerating engineers (not machinists)—a highly technical problem requiring the same degree of specialized knowledge and experience as the art of candy making itself. Bentz engineers have solved this problem for confectioners in the development of the "COLD-BED" (nearly 500 in use).

We are, first, engineers and, second, builders of equipment. We will make a survey of your manufacturing facilities and conditions and submit floor layouts, suggestions and estimates without cost or obligation. Bentz representatives respect the ethics of their profession—confidences are not betrayed.

Manufacturing confectioners who have taken us into their confidence and let us help work out their production problems have profited in great measure; their names—leaders in the candy industry—will be given on request.



BENTZ "CHILBLAST" as Installed



Unit No. 1, Curtiss Candy Co.,  
where 18 Coldbeds are in use.

April 30, 1926.

first Bentz equipment  
ing of "for a very careful  
750 Briar and air conditioning  
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ers ago used "CHILBLASTS", in  
gating  
nt gave complete satisfaction that  
templation of another factory,  
tingly one in our two Plants twen-  
and the cooling of our choc-  
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for cool two plants six "CHIL-  
gregating  
tories we are quite cer-  
t we would avail ourselves of  
sincerity  
did co-operation you have gi-  
g you for  
ns, we are,  
Very truly yours,  
CURTISS CANDY CO.  
Albioning  
Otto Y. Schnering  
PRESIDENT

# UNION

## Rebuilt Candy Machinery

All machines guaranteed to give you the same satisfaction and production as new ones.

### Enrobers, Standard Springfield

Kihlgren Strokers  
Automatic Nut Feeders  
Bottoming Attachments  
Automatic Shaker-Feeders  
A. C. and D. C. Motor Drive  
Short and Long Delivery Systems  
Greer Cooling Systems  
  
**Ball Machines**, Mills  
All shapes and sizes of Rollers  
**Basket Dipping Machines**,  
Walter, Racine  
**Brach Continuous Buttercup Cutter**,  
with Conveying and Blowing  
System  
**Racine Continuous Buttercup Cutter**,  
with Conveying and Blowing  
System  
**Chocolate Melting Kettles**  
150, 300, 500, 2,000 lbs.  
**Cocoanut Bon Bon Machine**, Heilmann, Mills  
**Cocoanut Grater**, Mills  
**Cocoanut Toasting Outfit**  
With Racks and Toasting Ovens  
**Cream Beaters**.  
Ball, 4 ft. and 5 ft.  
Clad, Copper, 5 ft. motor attached  
Werner, Little Wonder Cream  
Beater and Syrup Cooler, motor  
driven  
Jacalucci Beater, Jacketed  
Racine, Dillon Type  
**Cream Breaker**  
50-60-gal., underneath drive, Burkhard  
**Cream Remelter**, Springfield, 50-gal.  
Werner, 25-50 gal.  
**Caramel Cutters**, Racine and White  
**Caramel Kettles**, Tilting Type,  
Burkhard, 40-gal. capacity  
**Caramel Sizer**  
6 in. by 20 in. Racine, Reversible  
Mills, 6 in. by 18 in., Reversible  
Mills, 4 in. by 15 in., Table Type  
**Depositor**, Springfield No. 2  
**Depositor**, Chocolate, Springfield  
for fancy shapes  
**Depositor**, Racine  
**Depositor**, Werner, Interchangeable  
**Dough Mixers**, Day, 1 and 2-barrel

### Moguls, Steel and Wood

**Drop Frames**, Hand and Power  
All shapes and sizes of rollers  
**Egg Beater**, Read, Jaburg  
**Egg Beaters**, Mills & Clad, Vertical  
**Electric Hand Dipping Pots and  
Tables**  
**Enrober Boards**  
**Fruit Grinders**, Power, all sizes  
**Furnaces**, 15 in., 18 in., 23 in., for  
natural and forced draft  
**Gluing Machine**, Stokes and Smith  
**Jap Cutter**, Shear Motion, Mills  
**Jap Cutters**, Mills Patent Anderson  
**Jap Kettles**, Burkhard, 40-gal., Mills  
**Kettles**, for open fire, all sizes  
**Kettles**, Cooking, Steam Jacketed,  
80-gal. capacity  
**Lozenge Outfit**, Complete  
**Marshmallow Beaters**  
40-gal. Day, tilting  
20-gal. Day, tilting  
40-gal. Westerman  
50-gal. Springfield  
Barrel Type, Racine  
**Mixing Kettles**, Burkhard, 40-60-80-  
gallon  
Double action, single action  
Tilting and with outlet  
**Mogul Standard**, Springfield  
Steel and Wood  
**Mogul Pumps**  
12 to 30 outlet for wood Mogul  
Double 40 pump for steel Mogul  
**Mould Boards**  
**Paper Cutter**, Large, Power  
**Paper Cutter**, Double Corner,  
Knowlton  
**Peanut Roasters**, Burns & Lambert  
2 and 3-bag capacity  
**Printers**, Hand and Power  
**Plastic Machine** with Die and Sizer,  
Simplex  
**Racine Cup Separator**  
**Revolving Pans**  
38 in., with and without coils  
**Savage Patent Tilting Kettle**,  
Jacketed, double action, 25-gal.  
**Scales**, Kron, 6,000 lbs., built in floor



### Chocolate Machinery

**Conge**, 4 division, Springfield  
**Melangeur**, 6 ft., Springfield  
**Chasers**, 6 ft. and 7 ft., Springfield  
**3-Roll Refiner**, 16-in. by 40-in. rolls,  
Springfield, Bauermeister  
**5-Roll Refiners**, 16-in. by 40-in.  
Rolls, Springfield, Bauermeister  
**Refiners**, Bausman  
**Electric Hand-Dipping Pots and  
Sugar Mill**, Woodburn, Schultz-  
Springfield, Read  
**Dough Type Jacketed Mixing Ma-  
chines**, Read  
**Cocoanut Breaker**, 16-in. Rolls, Lehmann  
**Roasting Machines**, 5-bag, Burns  
**Cracker and Fanner**, 6 compart-  
ments, Springfield  
**Sugar Mill**, Woodburn, Schultz-  
O'Neil  
**Chocolate Tempering Machine**  
Springfield  
**Chocolate Bar Depositor**, with nut  
attachment, Springfield  
**Chocolate Depositor**  
For fancy shapes, Springfield  
**Chocolate Moulding Machines**, Leh-  
mann  
**Shaking Tables**, Lehmann  
**Sizing Machines**, Hand and Power  
Racine and Mills for balls, car-  
mels, etc.  
**Slabs**, Water Cooled, Collum, Mills  
3 ft. by 6 ft. and 3 ft. by 8 ft.  
**Starch Boards**  
**Starch Buck**, Racine, National  
**Starch Cleaner**, National Equipment  
**Sucker Machines**, Automatic, Ra-  
cine, long and short conveyor  
All shapes and sizes of Rollers  
**Sugar Pulverizer**, Schultz-O'Neil  
**Syrup Coolers**, Werner, with Beat-  
ers, 500 lbs. and 800 lbs. capacity.  
**Wrapping Machines**, Model "K"  
Kiss; Model "U-3" and "U-4" for  
5-cent and 10-cent flat and almond  
bars  
**Ideal for Caramels**,  $\frac{3}{4}$  in. by  $\frac{3}{4}$  in.  
by  $\frac{3}{8}$  in. to  $\frac{3}{4}$  in.

Visit us at the N. C. A. Convention, Booth No. 60

**Union Confectionery Machinery Co., Inc.**  
29-35 W. Houston Street, New York



## Research Has Done Wonders

for  
Industry

### We Have Now Underway Fact Finding

Research at Mellon Institute, Pittsburgh, Pa.,  
to Extend the  
Use and Knowledge  
of  
Gelatine in Confectionery

## 1st Marshmallows

*Your problem is one we'd like to tackle—  
Just outline it.*

Remember  is Standard

ESTABLISHED 1903

### ESSEX GELATINE COMPANY MANUFACTURERS

40 No. Market Street

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NEW YORK CITY  
54 Washington Street

PHILADELPHIA  
708 So. Delaware Ave.

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322 West Polk Street

ST. LOUIS  
400 So. Broadway

ATLANTA  
169 Haynes Street

LOS ANGELES  
412 West Sixth Street

SAN FRANCISCO  
Second & Brannan St.

PORLAND, ORE.  
403 Hoyt Street

SEATTLE, WASH.  
1018 4th Ave. So.

**NULOMOLINE**  
THE HONEY OF SUGAR



## “All Aboard”

REPRESENTATIVES of our Service and Sales Division will be there to greet you—don't hesitate to make a call at our booth. It will be your opportunity to gather new ideas and methods for making good candy.

**The NULOMOLINE Co.**

109-111 Wall Street

New York, N. Y.



*Only the finest ingredients  
are used in the making of  
Peter's coatings*

## Why exacting candy manufacturers specify Peter's Coatings

**F**ULL richness of flavor and dependable uniformity are the outstanding qualities of Peter's coatings.

Every cake of coating is stamped with the famous Peter trade mark to identify it as Peter's chocolate. And Peter's chocolate products are inimitable. There are none just as good.

The Peter line offers a variety of grades and flavors, meeting every requirement for better grade confectionery.

Place your contract now for fall business.

Peter Cailler Kohler Swiss Chocolates Co., Inc.,  
131 Hudson Street, New York City. Branch  
Sales Offices: 722 Nicholas Bldg., Toledo, Ohio,  
431 So. Dearborn St., Chicago, Ill., 3620 Third  
Ave. So., Minneapolis, Minn.

*Years of research and experiment in  
Europe and America by the most  
highly trained experts in the chocolate  
making industry have determined  
the formulas used for these superior  
coatings. And special methods of  
manufacture, known only to the  
Peter craftsmen, combine to produce  
the finer flavors that have greatly  
pleased candy manufacturers  
everywhere*

### At the Convention—

Stop in and rest at Booth  
108 in the ballroom



*"High as the Alps  
in Quality"*

**MILKS · VANILLAS · SWEETS · BITTER SWEETS · LIQUORS**

# PETER'S CHOCOLATE COATINGS

# SETHNESS COMPANY

659 Hobbie Street,  
Chicago, Ills.

Manufacturers of

CREAMS

FONDANTS

COLORS

VANILLAS

FRUIT PLASTICS

CARAMEL PASTES

FLAVORING EXTRACTS

SUPER CONCENTRATED BOUQUETS

And in Fact *Everything* Needed in the

## CANDY INDUSTRY!

“Come In” Booths 66, 67, 68, Hotel Sherman



TRADE MARK

**Atlas Certified Food Colors****ALL SHADES***Certified Combination Colors**Certified Primary Colors**Certified Paste Colors**Vegetable Dry Colors**Vegetable Paste Colors**Atlas Carmine No. 40***Atlas Flavors and Extracts***Genuine True Fruit Extracts**Imitation Fruit Flavors**Conc. Imitation Fruit Flavors**Pure Vanilla Extracts**Imitation Vanilla Flavors**Maple Flavors*

We are the World's  
Largest Producers of

**Carmine No. 40****Write for Samples and Prices**


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# ATLAS BRAND

## Colors and Flavors

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**The Priceless Ingredient**

WHEN buying pure food colors and flavors consider first THE PRICELESS INGREDIENT—the HONOR and INTEGRITY of him who makes them.

The ATLAS LABEL on a package of food color or flavor is your guarantee of satisfaction. It represents the technical knowledge of skilled chemists—the perfection that comes only through long experience—the resources of a national organization—and the PRIDE of its manufacturers in establishing and maintaining the World's standard of quality.

**H. KOHNSTAMM & CO., Inc.***First Producers of Certified Food Colors***NEW YORK**

83-93 Park Place

**CHICAGO**

11-13 E. Illinois St.

ESTABLISHED 1851



*White-Stokes'*

## Three Big Factors of Success in the Confectionery Industry

Progressive and successful men and firms in the confectionery industry have learned by actual, year-in-and-year-out experience to RELY IMPLICITLY upon White-Stokes' laboratory and production service.

As pioneers in perfecting and producing a complete line of time-proven products and formulas for bettering the quality of confections, and reducing production costs, it is a real pleasure to invite you to visit Booth 149 at the National Confectioners Exposition and familiarize yourself with the value and far-reaching importance of this service.

### FONDAX

An outstanding quality product for candy makers who demand economical production and quality results . . . For better Nougats, Butter Creams, Kisses, Taffies, Cherry Bars, Light Fluffy Nougat Bars, Fudges, Whipped Cream Centers and Hand Roll Centers. NOTE: No eggs are needed when Fondax is used.

### SUPERKREME

Economically replaces fresh cream and fresh milk, giving the full-cream, full-milk flavor. Especially recommended as a better-standing body for caramels and better-keeping quality for caramels and fudges. Also, for Cast Butter Creams, Butter Scotch, Hand Roll Butter Creams and Caramel Jacket work.

### HANROL CREME

Enables you to make centers of a heavy, creamy consistency, that are the acknowledged quality-superior of any hand rolled creams produced by other methods. Centers which ripen quickly to a smooth "flowy" consistency—that keep soft and fresh for a longer period of time than is possible without Hanrol Creme.

Send for tested formulas for popular confections or Visit  
our Booth at the National Confectioners' Exposition.

## WHITE-STOKES COMPANY, INC.

3615 Jasper Place, CHICAGO

253 36th Street, BROOKLYN

Visit Booth 149 at the  
Third Annual Ex-  
position of The  
National Con-  
fectioners As-  
sociation  
of U. S.



Held at the Sherman  
Hotel, Chicago,  
May 24th to  
May 28th, in-  
clusive.

## *Without Changing Your "Pet" Formula*

CANDY makers often hesitate to test a suggestion for fear of upsetting their "pet" formula.



You can banish this thought when using **CONVERTIT** to soften your cream centers (either cast or rolled).



The use of **CONVERTIT** is no more complicated than the use of a new flavor.



Our booklet will tell you exactly how it is done. Send for it at once.

**THE NULOMOLINE COMPANY**

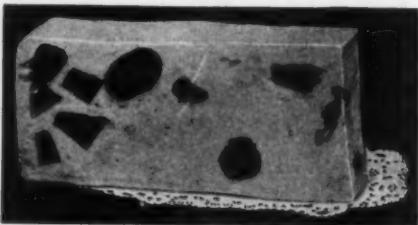
Exclusive Distributors of Convertit

109-111 Wall Street

New York, N. Y.

# CONVERTIT

*The highly concentrated invertase of standardized activity*


**FRENCH NOUGAT TO SLICE**

10 lbs. Sugar  
3 lbs. Corn Syrup 1 pt. Water

Place in kettle and cook to 260 deg. Add 6 lbs. Betco Nougat Creme. Stir till thoroughly mixed and batch gets stiff and shows a good grain. Add 1 lb. coconut butter which has been melted or shaved in fine pieces. Add nut meats or fruits to suit. Pour in boxes lined with wax paper.

For Best Results with Your Candies Use  
Betco Nougat Creme, Ideal Caramel Paste  
and NuKreme

# NOUGAT CREME

makes the  
CANDY MANUFACTURER'S DREAM  
come true

The dream referred to becomes a day dream of what manufacturers wish to happen. Here it is:

To Do More Work	To Do It at Lowest Cost
To Do It In Less Time	To Avoid Waste
To Improve Quality	To Conserve Human Energy and Mechanical Operations

Now all these things are definitely possible of realization.

## BETCO NOUGAT CREME

will accomplish to a large degree all these things; it will help make your dream for better candies and better repeat business come true. It is doing it for hundreds of others, it can do it for **you**. BETCO NOUGAT CREME is manufactured by the first Formula ever created for making a high quality Nougat Base. The quality is therefore assured.

Order a trial shipment of BETCO NOUGAT CREME and you will be delighted with the uniform result obtained in using this high grade standardized product.

Send for our book of Formulas showing how to use BETCO NOUGAT CREME.

## BETTS PRODUCTS CO., Inc.

321-323 WEST AUSTIN AVE.

CHICAGO, ILL.



The modern Wheel Drying Process is employed only in making UCOPCO —the purity gelatine.

United Chemical & Organic Products Co.  
4200 South Marshfield Avenue  
NEW YORK NEW ORLEANS SAN FRANCISCO  
401 E. 45th Street P. O. Box 1576 311 California Street

**Ucopco**  
Wheel Dried Gelatine

*on Cultivating  
high class trade*

IT is always worth while to sell a better quality article—to make a better display—or to give a better service than your competitor.

There is nothing you can put out that will impress your customers with the *Quality* of your product like an *All Fruit Box* or a *Fruit and Nut assortment* containing



*Order a case—Today  
—6 cans  
assorted  
flavors*

### BLANKE-BAER DIPPING FRUITS

PINEAPPLE CUBES  
7 Flavors 7 Colors  
Three Sizes  
Small - Medium - Jumbo

PEACH CUBES  
DIPPING RAISINS  
DIPPING KUMQUATS  
STRAWBERRIES

**BLANKE-BAER**  
Extract and Preserving Company  
3224-34 S. Kingshighway  
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# CLINTON BRANDS

## Quality Products from Corn

Confectioners Corn Syrup  
all gravities

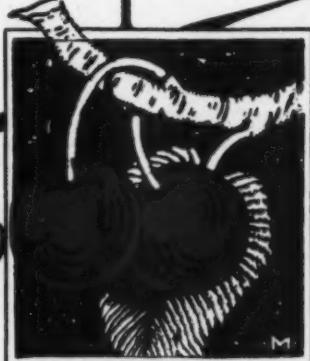
Clintose—Refined Corn Sugar

Confectioners Starches

CLINTEX MODIFIED  
SPECIAL MOULDING  
PURE FOOD POWDERED

Manufactured by

**CLINTON CORN SYRUP REFINING CO.**  
CLINTON, IOWA



# Velvet Cherries

for dipping

*are supreme!*

—Because of the brilliant red color — because they are firm, yet tender, delicious to eat with a delightful flavor. Ask for samples and prices.



The International Company

KEY HIGHWAY

C. M. PITTS & SONS CO.

BALTIMORE

Your Cash Register  
is Really a

# TASTE METER

*Does It Reflect a  
Consumer Appeal Up to  
the Foote & Jenks Standard?*

**T**HE difference between a fast selling confection and a slow one is almost always a matter of flavor.

And although there are a number of chemists who are final authorities concerning the technical side of flavors, THE PUBLIC IS THE REAL JUDGE in the matter of whether or not the flavor is appealing.

Take our word for the superior quality and economy of Foote & Jenks soluble, super-concentrated flavors, AND LET YOUR CASH REGISTER MEASURE THE BUSINESS BUILDING CAPACITY of our products for you. On this basis we are confident that the verdict must be in our favor. Order Trial Gallons today.

MEET US AT  
**SPACE  
29**  
HOTEL  
SHERMAN  
May  
24 thru 28

The house that gave "Original Terpeneless Citrus Concentrates" to the trade back in 1885 still leads in its complete flavor service. Consider the Foote & Jenks representative, who calls upon you, in his true capacity—a Flavor Service-Man eager to work for your interests.

Each gallon of Foote & Jenks flavors not only contains the flavoring strength of many gallons of ordinary flavors of usual strength, but all Foote & Jenks concentrates are of uniform strength insofar as the nature of raw materials will permit—meaning a vast amount of trouble saved in your production. You can use 20 Foote & Jenks concentrates interchangeably with practically no change in formula. Also keep in mind that Foote & Jenks flavors are soluble. Trial gallons will prove to you the greater value and economy of all Foote & Jenks concentrates.

**FOOTE & JENKS**  
Flavor Specialists

JACKSON, MICHIGAN

BOSTON

# Crystal EDIBLE Gelatine

**Makes Good Candy  
That Is Always Uniform**

*We Guarantee Every Barrel  
to be Uniform with the First*

**W**HY be worried by varying quality and lack of uniformity in your marshmallows? Boston Crystal Edible Gelatine assures not only a pure, tender, delicious product, but it makes certain that every batch will be the same. We guarantee that every barrel you receive will be the same as the first; which means clean, pure, edible gelatine of the greatest strength and highest viscosity according to grade.

Particular attention to selecting raw materials enables us to produce gelatine of the highest excellence. We concentrate on producing the purest and strongest gelatine, by methods consistent with good practice. That is why Boston Crystal Edible Gelatine serves its purpose more effectively than other gelatinates.

But the success of our customers—outstanding makers of ice creams and candy who use Boston Crystal Edible Gelatine—is the most convincing proof that this is the best and most economical gelatine to use.

We submit without charge sufficient samples of any grade for practical or laboratory tests. Trial orders are shipped subject to approval with privilege of return if unsatisfactory—  
You be the Judge

## CRYSTAL GELATINE COMPANY

121 Beverly St.

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Should Visit Booths No. 79-80  
(in the Ball Room)

at National Confectioner's Exposition

(Ask the man who makes the  
line you would like to make)

W. J. STANGE CO., CHICAGO



Look for the NATIONAL Booth  
at the Chicago Exposition

WHEN you attend the Third Annual Exposition of the National Confectioners' Association at the Hotel Sherman in Chicago, May 24th to 28th, visit the National's Exhibit in spaces 23 and 24. You will find a very interesting display of National Certified Food Colors.

Our technical men will greet you and will be glad to discuss your coloring problems. Make this booth your headquarters.

*Certified Food Color Division*

**National Aniline & Chemical Company, Inc.**

40 Rector Street, New York, N. Y.

CHICAGO  
357 W. Erie St.

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201-203 W. First St.

SAN FRANCISCO  
145 Second St.



# America's Finest Coating Machine

Quality Output  
with  
High Gloss  
Finish



Built in Three Sizes: 16-inch;  
24-inch and 32-inch

Ask about the

# Universal Coating Machine

MANUFACTURED BY

**Universal Candy and Chocolate Machinery Co., Inc.**

SPRINGFIELD, MASSACHUSETTS

Sales Office: 117 Atkinson Street, Boston, Massachusetts

## Friends:—

*I will be  
pleased to  
greet you at  
the Chicago  
Convention*

ARTHUR F. MILLER

with  
John Werner & Sons  
Machinery



*YOU*

are invited to make

*Booth  
No. 50*

Your Headquarters  
at the N. C. A.  
Exposition

*Dunn's Gelatine*

## National Confectioners Association Exposition

May 24 to 28, 1926

HOTEL SHERMAN—Booth No. 160

VANILLA LABORATORIES, Inc., Rochester, N. Y.

### Chocolate Molds



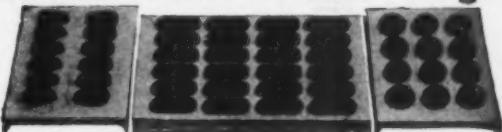
BARS, CAKES, FANCY PIECES  
Double Molds for Hollow Figures  
PANS—LARGE and SMALL

EPPELSHEIMER & CO.  
34 Hubert Street  
NEW YORK CITY

### "Centers of Attraction"

NEW - REX - WAY  
HAND - ROLL - STYLE

LARGE OR SMALL PRODUCTION  
NO STARCH - NO HANDLING - NO REMELT



BARS - EGGS - PATTIES - BON BON CENTERS  
Immediately Ready to Dip

HARRY L. FRIEND  
154 MILK STREET  
BOSTON, MASS., U. S. A.

Models for every use.  
Special designs for  
Special cases.



per minute  
per dollar  
per package

Looking at it from any standpoint—**your** standpoint as a manufacturer—the **BUNN PACKAGE TYING MACHINE** can reduce your cost of packaging immensely.

Because of its definite accomplishments, it is used by leading candy manufacturers throughout America. Its speedy and accurate service and its record and efficiency have made it the acknowledged leader in its field and thereby deserves your consideration.

The "Turn Table" Model herewith shown is the most practical method for tying packages ever invented. It easily handles thirty filled boxes per minute, winding twine both ways at one operation, ties a non-slip knot, ejects the package and is instantly ready for the next to be placed.

The **BUNN** machines are designed for your particular requirements, manufactured, sold and guaranteed by the inventors. Why not let the **BUNN** tie your packages since it will do more for you at smaller cost?

**B. H. BUNN COMPANY**  
7329-31 Vincennes Avenue  
CHICAGO, ILL., U. S. A.

Turn Table Model with candy box in place



It takes more than the finest raw materials to make Atlantic Gelatine so good. There must be technical knowledge, sanitation, care, precision, and—

# Protection

From start to finish the making of Atlantic Gelatine is replete with applied chemistry and chemical engineering. Into the entire process—controlled by scientists—every factor of perfected quality is introduced.

ATLANTIC GELATINE COMPANY  
WOBURN, MASSACHUSETTS

Chicago: Suite 510, 118 N. La Salle Street  
New York: Room 92, 1 Hudson Street

## ATLANTIC Super-Clarified GELATINE

Meet us at the Annual Exposition and Convention of the National Confectioners Association at Chicago, May 24-28, 1926, Hotel Sherman, Booth No. 95.



You are cordially invited to visit our modern daylight factory, where exclusive modern processes produce Atlantic Gelatine



## The Read 3-SPEED Candy Beater

Will be on Display  
at the

CHICAGO SHOW

Booth Number 30

*Be Sure to Look It Over*

Read Machinery Co.  
YORK, PA.

MIXING AND  
AIR-CONDITIONING MACHINERY





# Fact Finding Through Account Classification

An Interview by Ralph G. Wells with

**J. Karl Mason**

Treasurer, New England Confectionery Co., Boston

*Every executive needs facts. Good accounting fills the need.*

**T**HE profits of industry result from an effective utilization of capital in the form of three major factors—equipment, material and labor. Such effective use depends upon the skill of the executive, his knowledge of conditions, his vision, his directive ability. Obviously, however, he must at all times know exactly what is going on in his business and whether the various divisions of the enterprise are functioning as they should. This knowledge to be accurate must be based upon facts alone; and the best sources of fact in any organization should be the accounts, recording as they do the ebb and flow of the life-blood of the enterprise—income and expenditure.

Many business men have but a limited conception of the use of accounting as an indicator of the economic trends of business and as an aid in developing the economic growth of the business. This is in major degree the fault of accounting methods themselves. Accounts when properly arranged form the most sensitive and the most accurate means of control that have yet been devised.

It follows, then, that the executive should make the greatest use of his accounting facilities, both as a source of information and knowledge and as a tool through which to control results. This means that his accounting methods must be so arranged that they will sup-

ply quickly, accurately and continuously all of the facts that the executive needs in making his decisions and in controlling the activities of business. An essential step in this direction is the accurate classification of accounts so that facts and figures will be properly grouped and correlated. It is essential also that the classification be in sufficient detail to enable the executive, through his assistants, to locate the exact source and cause of any changes or deviations from the established course.

Accounts should be more than columns of figures and records of finances. They should set forth salient facts in an interpretative manner. Logical classification and arrangement provide an accurate method of collecting the significant facts needed by an executive.

With this point in view, Mr. Mason made a very careful study of the classification of accounts for a manufacturing concern. The results of this study were printed in "Administration," published by the Ronald Press Company, New York. Through the courtesy of this company we are reproducing herewith a chart prepared by Mr. Mason showing the relationship of accounts and their classification, as well as a schedule of accounts.

It should be explained that the schedule shown below is purely hypothetical, serving merely as an illustration to show how a schedule should be worked out. In practice the details of a schedule must be arranged to fit the particular needs of the organization for which it is created.

## SCHEDULE OF ACCOUNTS<sup>1</sup>

<b>1 CAPITAL</b>
<b>11 WORKING CAPITAL</b>
<b>111 QUICK ASSETS</b>
<b>1111 CURRENT ASSETS</b>
-1 Cash on Hand and in Banks
-11 General Funds in Banks
-12 Pay-Roll Funds
-13 Petty Cash Funds
-14 Funds in Transit
-2 Accounts Receivable
-21 On Open Account Terms
-22 On Trade Acceptance Terms
-23 On S. D. B. L. Terms
-24 On C. O. D. Terms
-3 Trade Acceptances Receivable
-4 Notes Receivable

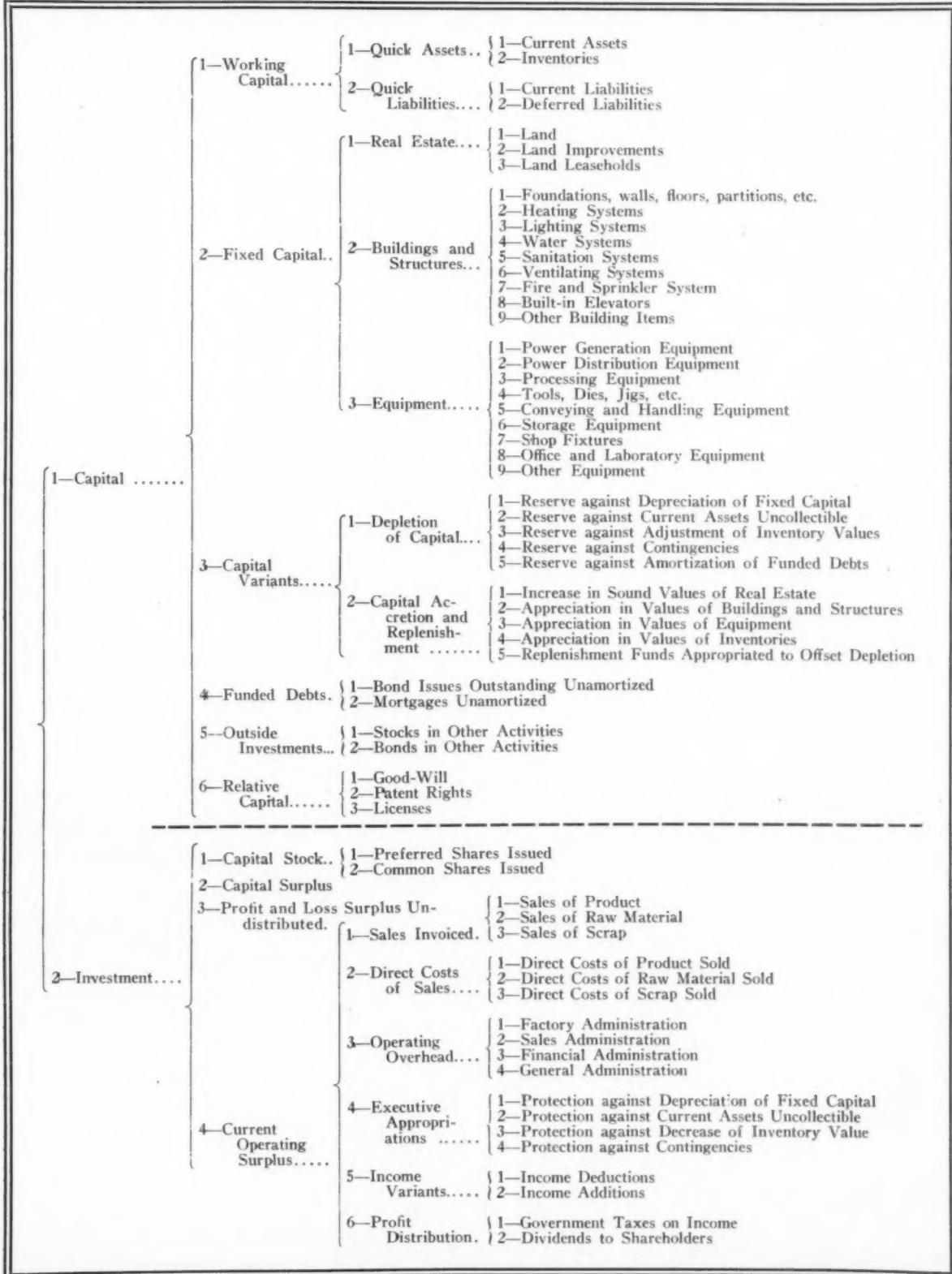
-5 Royalties Receivable	-33 Taxes Real and Personal Prepaid
-6 Advances to Employees	-34 Interest Prepaid
-7 Sundry Debtors	-35 Rents Prepaid
-71 Freight Claims in Action	-36 Royalties Prepaid
-8 Accrued Interest Receivable	-37 Tool Expense Unabsorbed
-9 Other Current Assets	-38
	-39 Other Charges
	-4 Work in Process
<b>1112 Inventories</b>	-41 Material Values
-1 Materials in General Stores	-42 Labor Values
-2 Labor Undistributed	-5 Materials in Sub-Stores
-21 Shop Wages	-6 Product in Warehouse
-22 Weekly Salaries	-7 Consigned Stocks in Distributor's Hands
-23 Monthly Salaries	-8 Unaudited Purchases
-3 Charges Undistributed	-9 Other Inventories
-31 Insurance Prepaid	
-32 Advertising and Publicity Prepaid	

## SCHEDULE OF ACCOUNTS—Continued

<b>112 QUICK LIABILITIES</b>	1238 Office and Laboratory Equipment	<b>2431-2 Design of Product</b>
<b>1121 Current Liabilities</b>	1239 Other Equipment	-21 Engineering Office
-1 Salaries and Wages Payable	13 CAPITAL VARIANTS	-211 Materials and Supplies
-11 Shop Wages Payable	131 Depletion of Capital	-212 Salaries and Wages
-12 Weekly Salaries Payable	(Reserves against)	-212 Other Charges
-13 Monthly Salaries Payable	1311 Depreciation of Fixed Capital	-22 Drafting-Room
-14 Unclaimed Wages and Salaries	1312 Current Assets Uncollectible	Materials and Supplies
-2 Accounts Payable	1313 Adjustment of Inventory Values	Salaries and Wages
-21 Items Voucherized for Payment	1314 Contingencies	Other Charges
-22 Items Unaudited due for Discount	1315 Amortization of Funded Debts	Defective Design (Waste From)
-3 Trade Acceptances Payable	132 Capital Accretion and Replenishment	Materials and Supplies
-4 Notes Payable	1321 Increase in Sound Values of Real Estate	Salaries and Wages
-41 Notes Payable for Borrowed Funds	1322 Appreciation in Values of Buildings and Structures	Other Charges
-42 Notes Payable for Other Indebtedness	1323 Appreciation in Values of Equipment	Timekeeping and Sub-Stores
-5 Royalties Payable	1324 Appreciation in Values of Inventories	Materials and Supplies
-6 Unaudited Invoices	1325 Replenishment Funds Appropriated to offset Depletion	Salaries and Wages
-7 Sundry Creditors	<b>14 FUNDED DEBTS</b>	Other Charges
-71 Dealers' and Agents' Deposits	<b>141 BOND ISSUES OUTSTANDING UNAMORTIZED</b>	Warehouse and Shipping-Room
-72 Customers' Deposits	<b>142 MORTGAGES UNAMORTIZED</b>	Materials and Supplies
-8 Accrued Interest Payable	<b>15 OUTSIDE INVESTMENTS</b>	Salaries and Wages
-81 Interest Payable on Notes	<b>151 STOCKS IN OTHER ACTIVITIES</b>	Other Charges
-82 Interest Payable on Mortgages	<b>152 BONDS OF OTHER ACTIVITIES</b>	<b>2431-3 Schedules and Deliveries</b>
-83 Interest Payable on Funded Dept	<b>16 RELATIVE CAPITAL</b>	-31 Supervisor's Office
-9 Other Current Liabilities	<b>161 GOOD-WILL</b>	-311 Materials and Supplies
<b>1122 Deferred Liabilities</b>	<b>162 PATENT RIGHTS</b>	-312 Salaries and Wages
-1 Commissions Accrued, not due	<b>163 LICENSES</b>	-313 Other Charges
-2 Taxes Accrued, not due	<b>2 INVESTMENT</b>	-32 Outward Traffic Department
-21 Real Estate Taxes	<b>21 CAPITAL STOCK</b>	-341 Materials and Supplies
-22 Personal Taxes	<b>211 PREFERRED SHARES ISSUED</b>	-342 Salaries and Wages
-23 State Franchise Taxes	<b>212 COMMON SHARES ISSUED</b>	-343 Other Charges
-24 Federal Income Taxes	<b>22 CAPITAL SURPLUS</b>	<b>2431-4 Process and Fabrication</b>
-25 Federal Excess Profits Taxes	<b>23 PROFIT AND LOSS SURPLUS UNDISTRIBUTED</b>	-41 Foremanship
-26 Capital Stock Taxes	<b>24 CURRENT OPERATING SURPLUS</b>	-411 Material and Supplies
-27 Excise Taxes	<b>241 SALES INVOICED</b>	-412 Salaries and Wages
-28	2411 Sales of Product	-413 Other Charges
-29 Other Taxes	2412 Sales of Raw Material	-42 Shop Trucking and Elevation
-3 Quantity Discounts Accrued, not due	2413 Sales of Scrap	-421 Materials and Supplies
-4 Rents Accrued, not due	<b>242 DIRECT COSTS OF SALES</b>	-422 Salaries and Wages
-5 Dividends Accrued	2421 Direct Costs of Product Sold	-423 Other Charges
-6	-1 Costs for Direct Materials	-43 Defective Manufacture (Waste From)
-7	-2 Costs for Direct Labor	-431 Materials and Supplies
-8	2422 Direct Costs of Raw Material Sold	-432 Salaries and Wages
-9 Other Deferred Liabilities	-1 Costs for Direct Materials	-433 Other Charges
<b>12 FIXED CAPITAL</b>	-2 Costs for Direct Labor	-44 Direct Costs not Distributed to Product
<b>121 REAL ESTATE</b>	2423 Direct Costs of Scrap Sold	-441 Direct Materials
1211 Land	-1 Costs for Direct Materials	-442 Direct Labor
1212 Land Improvements	-2 Costs for Direct Labor	<b>2431-5 Selection and Maintenance of Equipment</b>
1213 Land Leaseholds	<b>243 OPERATING OVERHEAD</b>	-51 Master Mechanic's Office
<b>122 BUILDINGS AND STRUCTURES</b>	<b>2431 Factory Administration</b>	-511 Materials and Supplies
1221 Foundations, Walls, Floors, Partitions, etc.	-1 General Factory Management	-512 Salaries and Wages
1222 Heating Systems	-11 Shop Executive Offices	-513 Other Charges
1223 Lighting Systems	-111 Materials and Supplies	-52 Maintenance of Factory Buildings and Equipment
1224 Water Systems	-112 Salaries and Wages	-521 Materials and Supplies
1225 Sanitation Systems	-113 Other Charges	-522 Salaries and Wages
1226 Ventilating Systems	-12 Shop Idle Time	-523 Other Charges
1227 Fire and Sprinkler Systems	-121	-53 Removal and Reinstallation of Equipment
1228 Built-in Elevators	-122 Salaries and Wages	-531 Materials and Supplies
1229 Other Building Items	-123	-532 Salaries and Wages
<b>123 EQUIPMENT</b>	-13 Undistributed Factory Expense	-533 Other Charges
1231 Power Generation Equipment	-131 Materials and Supplies	<b>2431-6 Generation and Distribution of Power</b>
1232 Power Distribution Equipment	-132 Salaries and Wages	-61 Power Engineer's Office
1233 Processing Equipment	-133 Other Charges	-611 Materials and Supplies
1234 Tools, Dies, Jigs, etc.		-612 Salaries and Wages
1235 Conveying and Handling Equipment		-613 Other Charges
1236 Storage Equipment		-62 Power Plant Operation
1237 Shop Fixtures		-621 Materials and Supplies (other than fuel)

(Continued on page 58)

Figure 1. Chart Showing the Relationship of Accounts and Structure Upon Which the Schedule of Accounts Is Built.



## SCHEDULE OF ACCOUNTS—Continued

-623	Other Charges	-323	Contracts, Cost of Space, Etc.	-231	Materials and Supplies
-63	Fuel and Equivalents	-4	Fees and Commissions	-232	Salaries and Wages
-631	Fuel Consumed	-5	Gratuitous Samples and Supplies	-233	Other Charges
-632		-6	Unclassified Sales Expenses	-24	Watchman Service
-633	Power Purchased			-241	Materials and Supplies
<b>2431-7</b>	<b>Procurement and Storage of Materials</b>			-242	Salaries and Wages
-71	Purchasing Office	<b>2433 FINANCIAL ADMINISTRATION</b>		-243	Other Charges
-711	Materials and Supplies	<b>2433-1</b>	<b>General Financial Management</b>	-25	Education and Athletics
-712	Salaries and Wages	-11	Financial Executive Offices	-251	Materials and Supplies
-713	Other Charges	-111	Materials and Supplies	-252	Salaries and Wages
-72	Receiving and Storage Department	-112	Salaries and Wages	-253	Other Charges
-721	Materials and Supplies	-113	Other Charges	<b>2434-3</b>	<b>Restaurant</b>
-722	Salaries and Wages	-12	General Accounting	-31	Income from Food Sales (This is a credit account.)
-723	Other Charges	-121	Materials and Supplies	-32	Restaurant Expense (This is a debit account.)
-73	Inward Traffic Department	-122	Salaries and Wages	-321	Materials and Supplies
-731	Materials and Supplies	-123	Other Charges	-322	Salaries and Wages
-732	Salaries and Wages	-13	Cashier and Pay-Roll Division	-323	Other Charges
-733	Other Charges	-131	Materials and Supplies	<b>2434-4</b>	<b>Experimental and Development Work</b>
-74	Defective Materials (Waste From)	-132	Salaries and Wages	-41	Engineering Office
-741	Materials and Supplies	-133	Other Charges	-411	Materials and Supplies
-742	Salaries and Wages			-412	Salaries and Wages
-743	Other Charges	<b>2433-2</b>	<b>Audits and Statistics</b>	-413	Other Charges
<b>2431-8</b>	<b>Inspection of Workmanship and Product</b>	-21	Audit of Income and Expenditure	-42	Laboratory Expense
-81	Chief Inspector's Office	-211	Materials and Supplies	-421	Materials and Supplies
-811	Materials and Supplies	-212	Salaries and Wages	-422	Salaries and Wages
-812	Salaries and Wages	-213	Other Charges	-423	Other Charges
-813	Other Charges	-22	Inventories Division	<b>2434-5</b>	<b>Bonuses and Awards</b>
-82	Shop Inspection	-221	Materials and Supplies	<b>2434-6</b>	<b>Charities and Donations</b>
-821	Materials and Supplies	-222	Salaries and Wages	-61	Gifts to Educational, Charitable, etc. Institutions
-822	Salaries and Wages	-223	Other Charges	-62	Gifts to Other Recipients
-823	Other Charges	-23	Tabulating Division	<b>2434-7</b>	<b>Fees, Assessments, Etc.</b>
-83	Faulty Inspection (Waste From)	-231	Materials and Supplies	-71	Taxes, Real, Personal, and Franchise
-831	Materials and Supplies	-232	Salaries and Wages	-72	Insurance Premiums
-832	Salaries and Wages	-233	Other Charges	-73	Leases and Rents
-833	Other Charges	-24	Statistical Division	-74	Audits and Appraisals
<b>2432 SALES ADMINISTRATION</b>		-241	Materials and Supplies	-75	Royalties Payable
<b>2432-1</b>	<b>General Sales Management</b>	-242	Salaries and Wages	-76	Directors' Fees
-11	Sales Manager's Office	-243	Other Charges	<b>2434-8</b>	<b>Transportation Costs Undistributed</b>
-111	Materials and Supplies			<b>2434-9</b>	<b>Unclassified General Expenses</b>
-112	Salaries and Wages	<b>2434 GENERAL ADMINISTRATION</b>		<b>244</b>	<b>EXECUTIVE APPROPRIATIONS</b>
-113	Other Charges	<b>2434-1</b>	<b>General Executive Expenses</b>	2441	For Protection against Depreciation of Fixed Capital
-12	Sales Allowances to Customers	-11	Executive Offices	2442	For Protection against Current Assets Uncollectible
-121	Allowances for Business Policy	-111	Materials and Supplies	2443	For Protection against Decrease of Inventory Values
-122	Allowances for Breakage in transit	-112	Salaries and Wages	2444	For Protection against Contingencies
-13	Discounts Allowed	-113	Other Charges	<b>245</b>	<b>INCOME VARIANTS</b>
-131	Discounts under Payment Terms	-12	General Office Management	<b>2451</b>	<b>Income Deductions</b>
-132	Discounts for Sales Quantities	-121	Materials and Supplies	-1	Unrealized Profit on Returned Sales
-14	Transportation Allowed	-122	Salaries and Wages	-11	Sales Value of Items Returned (This is a debit account.)
-141	Transportation Allowed Under Sales Terms	-123	Other Charges	-12	Direct Costs of Items Returned
-142	Transportation Excess by Delayed Shipment	-13	Legal Department	-121	Direct Materials
<b>2432-2</b>	<b>Field Sales Activities</b>	-131	Materials and Supplies	-122	Direct Labor (These are credit accounts; contra entries to be debits against inventory accounts to which returned items are charged)
-21	Salesmen and Inspectors	-132	Salaries and Wages	<b>2451-2</b>	<b>Interest Payable</b>
-211	Materials and Supplies	-133	Other Charges	-21	Interest on Bonds Outstanding
-212	Salaries and Wages	-14	Miscellaneous General Office Expense	-22	Interest on Notes Payable
-213	Traveling Expenses and other Charges	-141	Materials and Supplies		
-22	Service Department	-142	Salaries and Wages		
-221	Materials and Supplies	-143	Other Charges		
-222	Salaries and Wages	-15	Estimates and Standards Division		
-223	Other Charges	-151	Materials and Supplies		
<b>2432-3</b>	<b>Advertising and Publicity</b>	-152	Salaries and Wages		
-31	Advertising Department	-153	Other Charges		
-311	Materials and Supplies	<b>2434-2</b>	<b>Welfare and Protection</b>		
-312	Salaries and Wages	-21	Employment Department		
-313	Other Charges	-211	Materials and Supplies		
-32	Publicity	-212	Salaries and Wages		
-321	Materials and Supplies	-213	Other Charges		
-322	Salaries and Wages	-22	Hospital		

## SCHEDULE OF ACCOUNTS—Continued

-23	Interest on Trade Acceptances	-25	Interest Receivable from Accounts Receivable	of materials to be re-claimed)
-24	Interest on Mortgages	-3	Dividends Receivable	-822 Salaries and Wages
-25	Interest Payable on Overdue Accounts Payable	-4	Rents Receivable	-823 Other Charges
-3	Internal Revenue and Exchange on Checks, etc.	-5	Royalties Receivable	-9 Other Income Additions
<b>2452 Income Additions</b>		-6	Bad Debts Recovered	<b>246 PROFIT DISTRIBUTION</b>
-1	Cash Discounts Taken	-7	Scrap Returned from Process	<b>2461 Government Taxes on Income</b>
-2	Interest Receivable	-8	Reclaimed Materials	-1 Federal Income Tax
-21	Interest Receivable from Outside Investments	-81	Good Value of Materials Reclaimed	-2 Federal Excess Profits Tax
-22	Interest Receivable on Bank Balances		(This is a credit account; contra entries to be debits against inventory accounts to which reclaimed items are delivered)	-3 State Income Tax
-23	Interest Receivable from Notes Receivable	-82	Costs of Reclamation	<b>2462 Dividends to Shareholders</b>
-24	Interest Receivable from Trade Acceptances Taken	-821	Materials and Supplies (including scrap value	-1 Dividends on Preferred Shares
				-2 Dividends on Common Shares

(Note: The compilation of above Capital accounts results in a statement of Net Capital; the compilation of the Investment accounts delivers a statement of Present Worth of Investment.)

## Summary

TO FACILITATE a proper appreciation of the foregoing chart and an understanding of the accounting fundamentals upon which it is based, we are repeating here in condensed form Mr. Mason's definitions which accompanied the charts when they first appeared:

"Manufacturing accounts may be assembled into two great groups; namely, capital and investment. Their net totals tell respectively the figures of capital goods owned by the concern and the present worth of shareholders' investment as represented by that capital. These are the ultimate facts sought by economic accounting. However, there are ten contributing facts to be considered:

1. *Working capital*—capital set apart for provision of goods and services and for the conduct of business. Technically it is the difference between the sums of quick assets and quick liabilities—so-called.
2. *Fixed capital*—the sum of values contained in real estate, in buildings, structures and equipment.
3. *Capital variants*—changes in the utilities of capital goods occasioned by chance, use or possession. Technically they are the reserves created to offset capital depletion, depreciation, etc.
4. *Funded debts*—liabilities in the nature of firm contracts for whose extinguishment there are set apart sinking funds out of earnings or capital. Technically, they include such items as bonds and mortgages payable, whose payment at maturity is insured by reserves created for the purpose.
5. *Outside investments*—comprise stocks and bonds of other concerns valued at purchase price.
6. *Relative capital*—so named because its capital value results chiefly from its association with physical capital. It includes

good will, patent rights, licenses, etc.—of intangible value but nevertheless important to a going concern.

The six items so far defined constitute the major divisions of the capital group.

The investment group includes:

7. *Capital stock*—representing the respective shareholders' liens. Technically, it is the value of shares issued, figured at par or its equivalent.
8. *Capital surplus*—the value given to the increase in value of capital goods over their cost to the concern.
9. *Profit and loss surplus undistributed*—represents the residue from earnings of previous years allowed to remain invested for the use of the concern.
10. *Current operating surplus*—the residue from earnings of the current fiscal year after all expenditures, appropriations and distributions have been made from income. Technically, it is the net result of the figures ordinarily set forth as the profit and loss statement. Its total at the close of a fiscal year is transferred to profit and loss undistributed."

The foregoing classification conforms to fundamental accounting practices, but goes into much greater detail than is usual. All of the figures needed for statements and ordinary accounting are retained. Yet it will be found that this classification makes it easy to assemble facts and figures in any arrangement needed to show the economic situation of any division of the business or to indicate the relative effectiveness of any given department or activity.

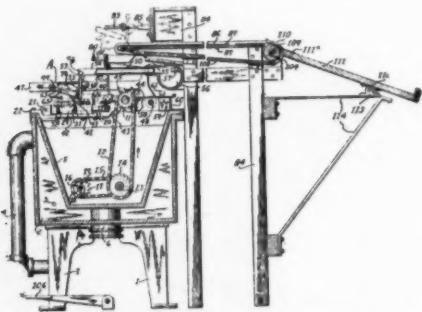
With such a system of accounts at hand, the executive is in strong position, so far as knowledge can help him, to meet competition, maintain profits, build for the future, insuring thus the permanency and stability of his enterprise.

# WHAT'S NEW?

## New Patents

1,578,465. Candy Coating and Decorating Machine. Angelo D. Panoulias, Jersey City, N. J., assignor by mesne assignments, to Panayiotis D. Panoulias. Filed July 21, 1921. Serial No. 486,558. 32 Claims. (Cl. 91—3.)

12. A method of coating caramels or other confections with chocolate or other coating material consisting of introducing a row of confections into a horizontally flowing stream of coating material, vibrating said confections while immersed in the stream of coating material, vibrating the row of confections after withdrawal from the coating stream, and simultaneously projecting a current of air on said coated confections.

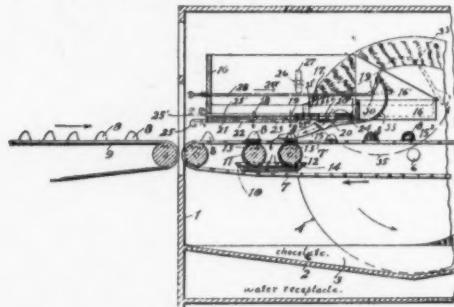


13. In a confectionery coating machine, the combination with the kettle, of a row of narrow endless elevator belts therein for raising the coating material

15. In a confectionery coating machine, a movable blower nozzle and means for moving the same across the coated confections.

1,582,644. Chocolate-Coating Machinery. George A. Dumas, Springfield, Mass., assignor of one-fourth to Herbert L. Handy, Sr., one-fourth to Herbert L. Handy, Jr., and one-fourth to Herman H. Handy, all of Springfield, Mass. Filed November 12, 1924. Serial No. 749,425. 11 Claims. (Cl. 91—3.)

1. A confectionery coating machine having in combination with only a single endless carrier on which the

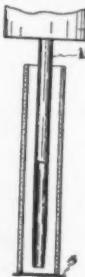


articles to be coated are placed when the coating takes place, a receptacle below the said carrier for receiving the coating material, means including grooved rollers for conveying the coating material to only the under surface of the article.

1,583,166. Manufacture of Candy and Confections. Julius J. Pawlas, Watsonville, Calif. Filed Mar. 20, 1922. Serial No. 545,018. 1 Claim. (Cl. 107—10.)

A mold for use in connection with the marking of candy beads or drops with a string passing therethrough, said mold comprising an elongated body, one end of said body being relatively wide as compared to its thickness and substantially wedge-shaped in longitudinal cross-section, the other end of said body being provided with a handle, and a plurality of openings passing longitudinally through said body and through said handle, each of said openings being adapted to hold a string, whereby plastic candy may be worked around the mold and drawn from the wedge-shaped end thereof with the strings space along the median line of the candy in readiness to be fed to a forming machine.

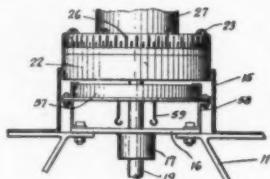
1,583,134. Tubular Confection. Alexander D. Fisher, Toronto, Ontario, Canada. Filed May 29, 1925. Serial No. 33,723. 4 Claims. (Cl. 107—54.)



1. In a process of forming a tubular confection the steps which consist in forming a chocolate tube, sealing one end by supporting the tube in a vertical position on a plane surface and dropping plastic plugging material to close the bottom of the tube from a point within the tube close to the bottom.

1,583,364. Confection Apparatus. John Parcell, New York, N. Y. Filed April 13, 1923. Serial No. 631,871. 1 Claim. (Cl. 107—8.)

A floss candy machine comprising a platform, a pan fixed to extend thereabove, a section melting pot having a removable upper portion, a vertical shaft supported on said platform, said shaft carrying said pot, a motor on said platform for driving said shaft, a gasoline tank on said platform secured to said pan, a burner below said pot, means for controllably conducting the gasoline to enter said heater, and a series of narrow elongated vertical slots in the wall of said pot opening to said pan, said slots alternating in length whereby floss strands of varying width are extruded.



### A Lesson from Peppermint

(Continued from page 12)

a radical curtailment of demand. The oil had reached a price where its continued large scale use became impractical. It devolved upon the larger users to take the bull by the horns and cut out peppermint. They did.

Peppermint chewing gums went on an allotment basis; the salesmen were instructed to sell winter green instead. A couple of the toothpaste manufacturers changed the flavor of their creams. The rise was over. The buying movement, checked in December, has not been resumed since. A lesson had been driven home.

#### The American Peppermint Belt.

The so-called American Peppermint Belt at one time extended from southwestern New York across northern Ohio to southern Michigan and northern Indiana, from whence it now reaches in a southwesterly direction into Illinois. Wayne County, N. Y. (as distinct from Wayne County, Mich., located in the heart of the present peppermint-producing area) was the first section in the United States to grow and distill peppermint on a commercial scale. Of late years peppermint culture has tended to become centralized in northern Indiana and southwestern Michigan, where the rich lowland muck soil especially favors the development of the plant. Notwithstanding the exhausting nature of the

peppermint crop, past experience with upland culture in rotation with other crops such as clover, corn, etc., indicates that it is capable of widespread development should the commercial need arise. This is a point to be borne in mind by the peppermint alarmists.

### Entertainment Program, N. C. A. Convention

(Continued from page 22)

**Annual Golf Tournament** will be played on the links of a well known local golf club on Monday, May 24th. The entrance fee will be \$10.00, which will include a whole day of golf, if you want it, with greens fee, caddies, lunch, dinner, prizes and sundry expenses all thrown in. Details are in a circular mailed concurrently with this Bulletin.

**Ladies' Luncheon and Auto Ride.** On Wednesday, May 26th, the ladies of the Convention will be taken for an automobile ride along the North Shore to the Edgewater Beach Hotel where luncheon will be served.

Each lady attending the luncheon will receive a very attractive and useful souvenir.

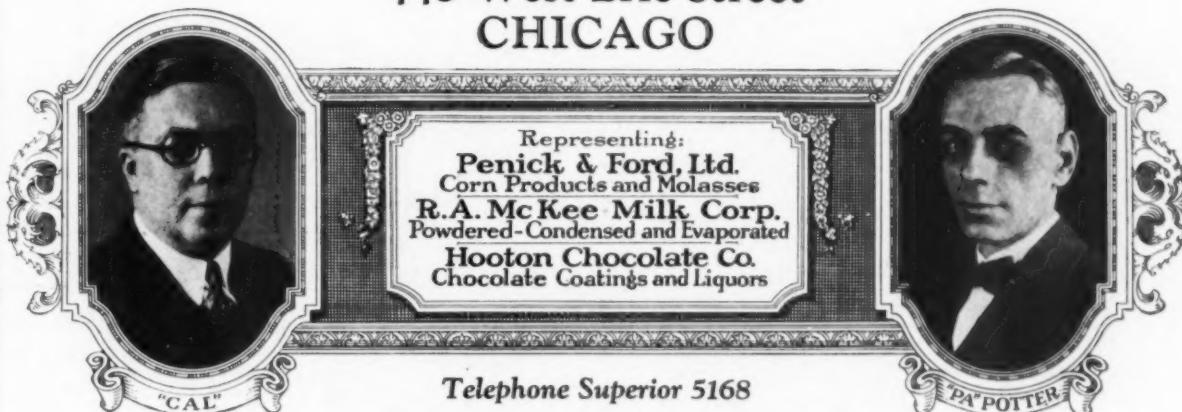
**Theatre Party** will be on Wednesday evening, seeing the celebrated musical show, "Castles in the Air," at the Shubert Olympic Theatre, which, according to the critics, is "the most beautiful musical play the world has ever seen."

**Annual Dinner and Dance** will be held in the Louis XVI room at the Hotel Sherman on Thursday evening, May 27th. Entertainment features will be given during the dinner, to be followed by dancing.

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**What's New at the N. C. A. Exposition!**

*From the advance information which we have received regarding the exhibits, we note that the following items of equipment and supplies are recent developments. Some of these items will be shown for the first time at the Exposition.*

**What's New in Equipment**

**Vacuum sealing and capping machine**, for sealing hard candy in vacuum in glass jars. The Aluminum Company of America, Booths No. 33-36, Exhibition Hall.

**Crystallizing unit and starch dry room**. Bentz Engineering Corp., Booths 21, 22, Exhibition Hall. **Plastic machine** (E. & R.), shown for first time. Elder & Robinson, Booths 8, 9, 10, Exhibition Hall.

**Plastic machine** (Baby Gaebel) and **new roaster**, cleaner and cooler ("Sirocco"). Candy & Chocolate Equipment Co., Booth 32, Exhibition Hall.

**Chocolate mold machine** for depositing chocolate on inside of hollow molds. Eppelsheimer & Co., Booth 156, Mezzanine.

**Continuous starch dryer and cooler**. A. Huhn Mig. Co., Booth 13, Exhibition Hall.

**Foilng machine** for wrapping confectionery of assorted sizes with foil. James B. McKeage, Booth 38, Exhibition Hall.

**Electric floor scrubbing machine**. Finnell System, Inc., Booth 117, Ball Room.

**Wrapping machine for wrapping small chocolates ("Sapal")**. Package Machinery Co., Booths 112, 113, Ball Room.

**Improved sugar sanding machine**. Sugar Sanding Machine Co., Booth 2, Exhibition Hall.

**Improved continuous cutter**. Vacuum Candy Machinery Co., Booths 16, 17, Exhibition Hall.

**Starch removing machine** for removing starch from cast goods and refilling the trays with starch ready for depositor. Universal Candy & Chocolate Machinery Co., Booth —

**What's New in Packing Materials**

**New display fixtures**. Brunhoff Mfg. Co., Booth 33, Exhibition Hall.

**New glassine tubes for wrapping bar goods**. Continental Paper & Bag Co., Booth 105, Ball Room.

**New lines imported fancy boxes** (Max Armbruster). Candy & Chocolate Machinery Co., Booth 32, Exhibition Hall.

**New items in tinsel and novelty ribbons and cords** for tying candy packages. Hy-Sil Mfg. Co., Lauer, Booth 130, Mezzanine.

**New lines imported French box novelties**. The Foxon Co., Booth 161, Mezzanine.

**New and exclusive designs in miniature cedar chests and other novelty wood containers**. Pilliod Lumber Co., Booth 1, Exhibition Hall.

**New designs in fancy box papers**. Keller-Dorian Paper Co., Booth 146, Mezzanine.

**New wood candy containers ("Plaquette")**. Fred Lauer, Booth 130, Mezzanine.

**New silk-lined cedar chest**. Donald F. Duncan, Booth 148, Mezzanine.

**New line of hinge cover gift boxes**. American Can Co., Nos. 92-94, Ball Room.

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